

## **HISTORY OF THE COSMIC RAY SOFTWARE**

- Software for cosmic ray projects (five systems for 10 instruments) were developed in the 1960's and 1970's, and maintained in the 1980's.
- IBM Center mainframes were the only available computer resources.
- Computers were too expensive for each Laboratory to buy.
- Technology dictated optimization of computer time, I/O, memory.
  - Assembler code
  - Tape-based data bases
- Resources (both computers and staff) have been constrained.
  
- Instruments have performed too well! Data is still being received.
- Current data holding is 100 GB (plus backups).
- Instrument changes have occurred over the years, and software has been maintained.
- Recent funding has been modest.

## **CODE 660 GOALS FOR COSMIC RAY SOFTWARE SYSTEMS: VOYAGER, PIONEER, IMP, ISEE AND HELIOS**

### **Science Goals**

- Dependable throughput for production processing.
- Satisfactory end-to-end turnaround for investigators requesting analysis products.
- Ensure continuing verifiability and validity.
- Flexible and powerful analysis software.

### **Software Goals**

- Use available resources cost effectively.
- Strengthen overall design as time and resources permit.
- Ensure platform-independence/transportability.
- Maximize maintainability via documentation and simplification.

## **TYPICAL PROJECT: VOYAGER**

(Top level diagrams of production software, analysis programs, data bases  
Total lines of FORTRAN, Assembly Language, CLISTS, JCL, other.  
Subroutine counts.  
List of known complications.)

## TECHNICAL ISSUES / UNKNOWNS

### **Technical Issues**

- Much assembler code, using macros.
- The entire CLIST and JCL front end will have to be redone.
- Data base systems use complex cataloguing schemes and sequential tape data bases.
- Other MVS dependencies, such as FTIO, DAIO, and TLS.
- We do not have the resources (\$ or scientific manpower) to convert all of our software to be machine-independent, nor to rewrite our systems.
- Scientific manpower is tight.
- Verification/validation of converted software is critical.

### **Unknowns**

- AIX Assembler (including macros) compatibility
- AIX VS FORTRAN/FORTRAN 77 compatibility
- AIX internal data representation (i.e. little endian, big endian, IEEE)
- Tape Library System (TLS) replacement or other tape/cartridge use on data analysis machine? and how much storage will we retain?
- MDSDS capabilities, policies, costs
- NCCS commitments (have nothing in writing), i.e. how long will MVS be around, how long will AIX be around, and for how long can we compute on the IBM?

## TESTING / VERIFICATION / VALIDATION

- Maintaining valid scientific software requires adequate overlap between MVS and new platform for adequate post-conversion testing. Must have before and after cases.
- Must compare before and after output data "bit by bit". Complications include precision incompatibilities and internal data representation problems.
- Must compare before and after output products over many time periods.
- Must confirm no errors have been introduced due to the conversion, e.g. lost data, bad numbers.
- Must have traceability to source code.
- Most effective if done by experienced personnel.

## SUGGESTED PLAN

- Obtain information on AIX specifics
- Conferring with the science team, identify capabilities which may not need to be converted (prioritize, and consider projected resources)
- Assemble documentation, and perform an audit of code to be converted
- Begin conversion of sample of one or two programs, to assess costs and technical difficulty
- Revisit current requirements and consider simplifications in design:
  - common data formats
  - eliminate unneeded data paths
  - unifying systems where possible
- Decide on priorities of conversion
- Allocate software to be converted to AIX or directly to another platform.

## POTENTIAL SOLUTIONS

- Run an MVS partition for the life of the IBM mainframe. We can then invest resources to **move applications** to other platforms (PC & UNIX) with adequate study and redesign. Need slightly less resources over 8 years. CHEAPEST!
- If conversion to AIX is "easy", i.e. not a big investment, then **convert to AIX now**, and then **move applications** to other platforms (PC & UNIX) with adequate study and redesign. Need large amount of resources over 8 years.
- For long term projects, that is, projects which will last beyond this decade, **move applications** to other platforms (PC & UNIX) and **leave short term projects on the IBM** until they or the IBM "die". Need large amount of resources over next 1.75 years.
- **Move applications quickly** off of the IBM mainframe completely. Need large amount of resources over next 1.75 years.

### MVS -----> AIX

- Operating system changes
- TLS conversion
- Throw out unused code.

### IBM -----> Other Platforms

- Strive for machine independence
- Assembler must be converted to C
- Redesign / rewrite some code
- Throw out unused code.

Presentation to NCCS and Headquarters, 3/24/92

## SLIDE 1

### CODE 660 GOALS FOR COSMIC RAY SOFTWARE SYSTEMS

#### Science Goals

- \* Dependable throughput for production processing
- \* Satisfactory end-to-end turnaround for investigators requesting analysis products
- \* Flexible and powerful analysis software
- \* Ensure continuing verifiability and validatability

#### Software Goals

- \* Maximize maintainability via documentation, simplification
- \* Strengthen overall design as time and resources permit
- \* Cost effective use of available resources
- \* Ensure platform-independence/transportability

## SLIDE 2

### HISTORY OF THE COSMIC RAY SOFTWARE

- \* 360 system was required
- \* Technology dictated optimization of computer time and i/o
  - Assembler code
  - Tape-based databases
- \* Five independent systems for ten satellites
- \* Data still coming
- \* Instrument changes over the years
- \* Modest recent funding
- \* 100 GB of data (plus backups)

## SLIDE 3

[System top-level diagram, showing boxes for production, analysis system, and total lines of code in each box.]

## SLIDE 4

### TECHNICAL ISSUES

- \* Some source code in doubt
- \* Assembly code macros
- \* AIX assembler compatibility
- \* Entire CLIST, JCL front end will have to be redone
- \* FORTRAN not expected to be a major difficulty
- \* Serial tape data bases, catalogs
- \* Panels, QED

I\*2  
L\*1  
R\*8  
D READ  
F READ  
S MOVE  
available

## SLIDE 5

### VERIFICATION OF CHANGES

- \* Maintaining valid scientific software requires adequate post-conversion testing
- \* Before and after cases
- \* Most effective if done by experienced personnel

## SLIDE 6

### SCOPE OF CHANGES

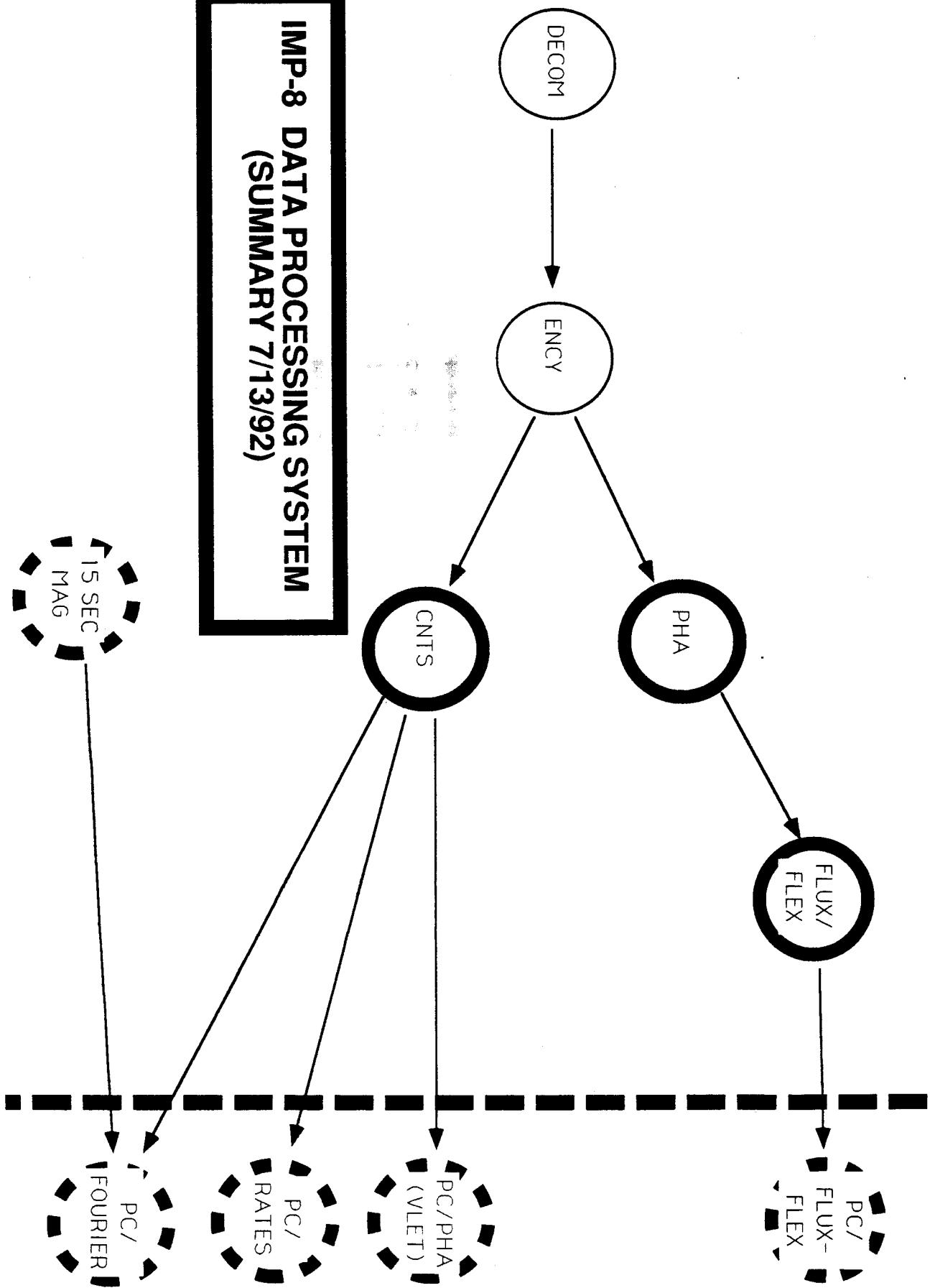
- \* Line of code counts
- \* Subroutine counts
- \* List of known complications

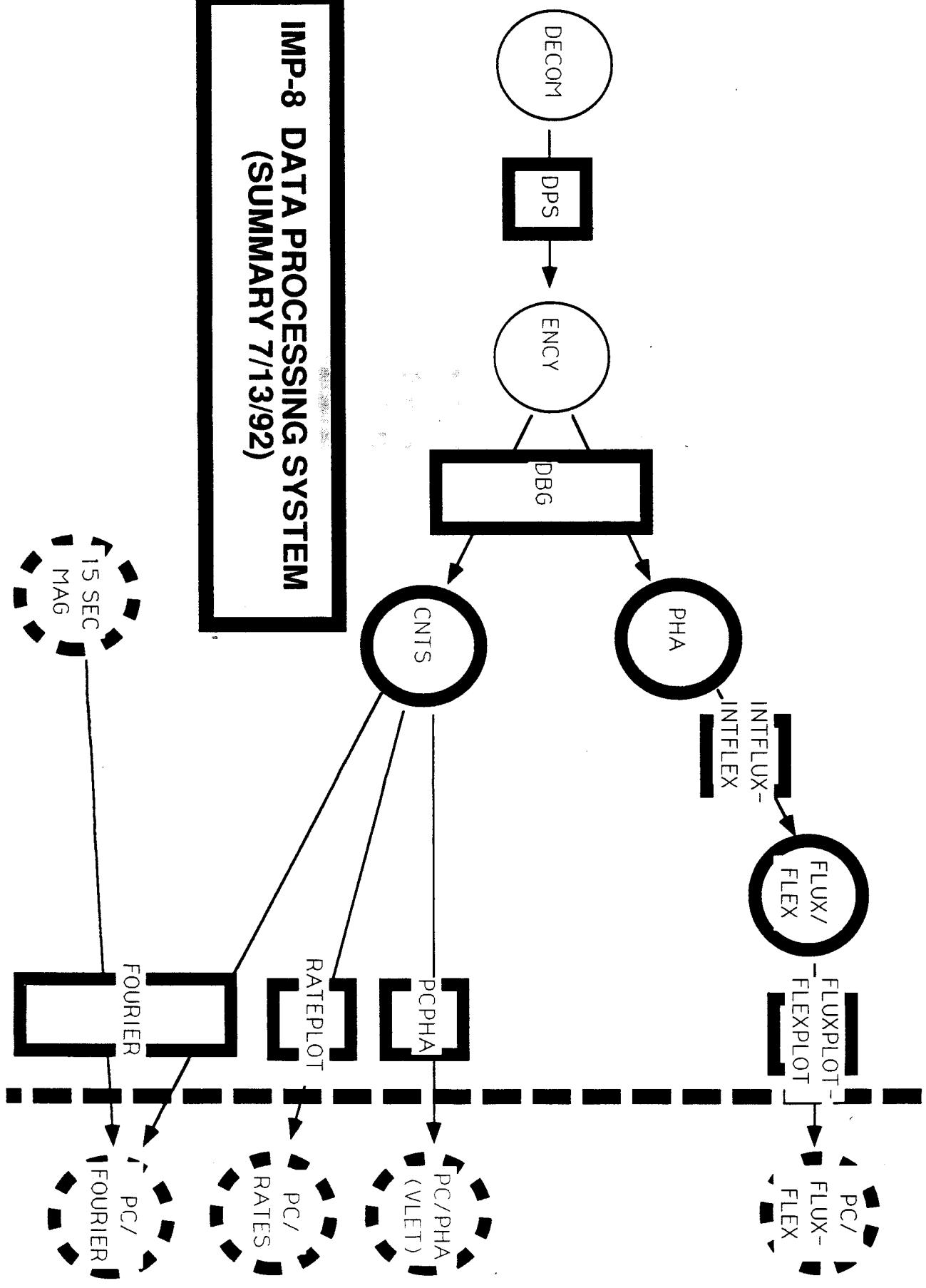
## SLIDE 7

### SUGGESTED PLAN

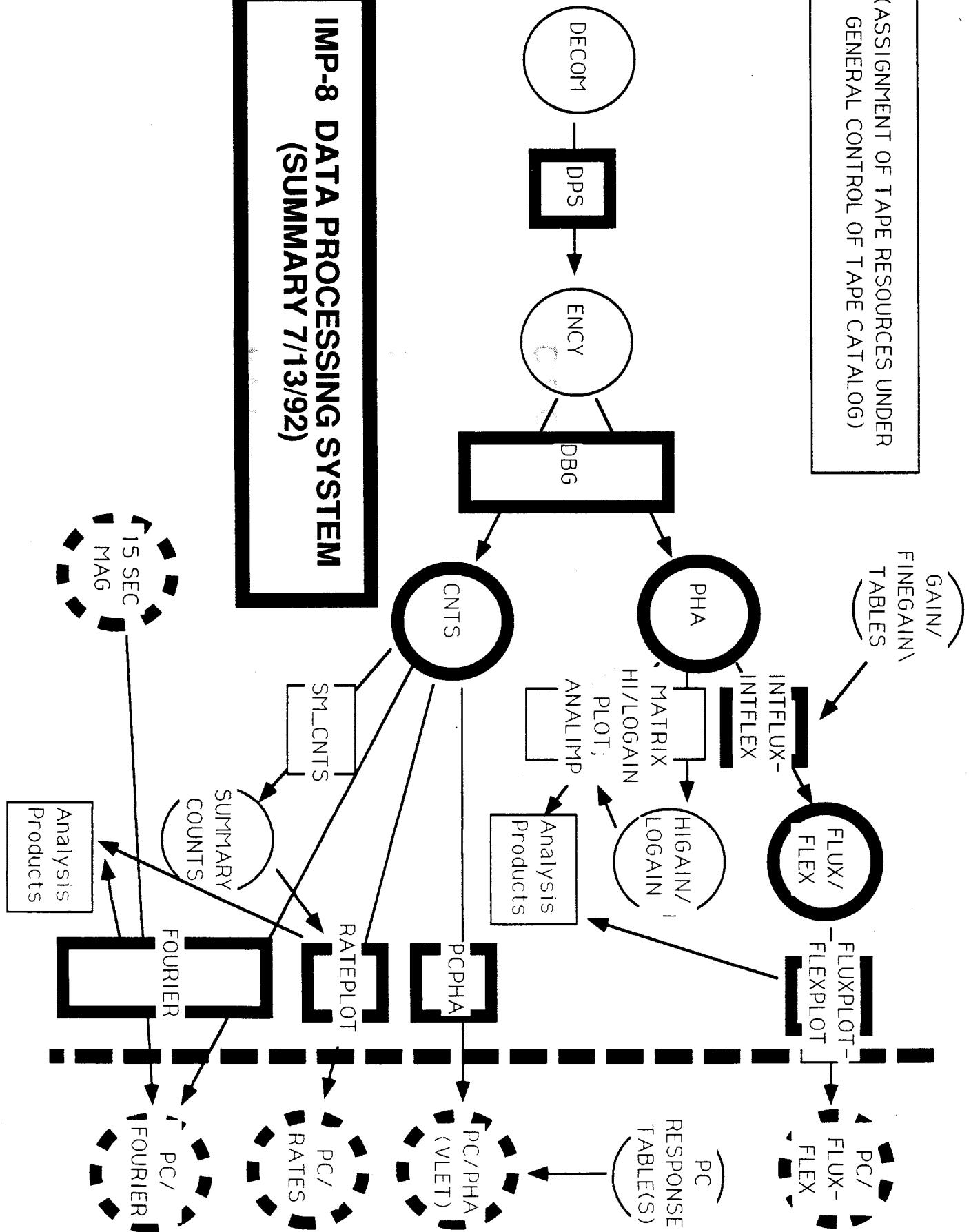
- \* Assess Egret Explorer
- \* Obtain documentation on AIX specifications
- \* Conferring with Science team, identify capabilities which may not need to be converted (prioritize, and consider projected resources)
- \* Assemble documentation, and perform audit of code to be converted
- \* Begin conversion of sample of one or two programs, to assess costs and technical difficulty
- \* Revisit current requirements and consider simplifications in design , e.g.,
  - Common data formats
  - Eliminate unneeded data paths
  - Unify system where possible
- \* Decide on priorities of conversion
- \* Allocate software to AIX conversion or to direct UNIX Workstation conversion

**IMP-8 DATA PROCESSING SYSTEM  
(SUMMARY 7/13/92)**





(ASSIGNMENT OF TAPE RESOURCES UNDER  
GENERAL CONTROL OF TAPE CATALOG)



# OUTLINE

## o OVERVIEW OF THE IMP-8/GME DATA SYSTEM

- MAJOR DATA TYPES
- MAJOR PROCESSING PROGRAMS LEADING TO THESE DATA TYPES
- THE "FULL" SYSTEM

## o KEY DECISIONS

## o ISSUES IN THESE DECISIONS

## o STRAWMAN IMPLEMENTATION APPROACH

# DECISIONS

- o CHOICE OF PRIMARY (NEW) OPERATING SYSTEM
  - PC-DOS
  - UNIX
- o CHOICE OF H/W PLATFORMS FOR PROCESSING
  - SINGLE-USER OR MULTI-USER ENVIRONMENT
  - LECR-SPECIFIC OR TBD COMPATIBLE WITH E.G. 630/NSSDC
- o CHOICE OF H/W FOR DATA STORAGE & ACCESS
  - 9-TRACK TAPE
    - Needed currently to support DECOM tape input
    - Drives could be non-local, or IPD could supply via network
  - REWRITABLE OPTICAL DISK (LONGTERM STANDARD =?)
  - 8MM OR 4MM TAPE
  - FILE SERVER (E.G., MDS2) VIA NETWORK

# ISSUES IN THESE DECISIONS

## O S/W CONVERSION COSTS

- KEY QUESTIONS IN AIX NOT ANSWERED WRT ASSEMBLER
- BUT EVENTUAL GOAL MUST BE TO (BE ABLE TO) GET OFF NCCS FACILITIES

## O H/W COSTS

- SINGLE-USER APPROACH => NEED FOR TBD DEDICATED H/W

## O AFFILIATIONS AND COMMONALITY

- WITH LECR AND WIND/EPIACT SYSTEM/APPROACH
- WITH VOYAGER/PIONEER

## O "ADMINISTRATIVE CONTROL"

- IMP-8/GME MAY NOT BE ABLE TO FOLLOW SUBSEQUENT SHIFTS IN "BASELINE" LECR/WIND OR VOYAGER/PIONEER PROCESSING; MARGINAL AS TO ABILITY TO OVERCOME THE MVS MOVE

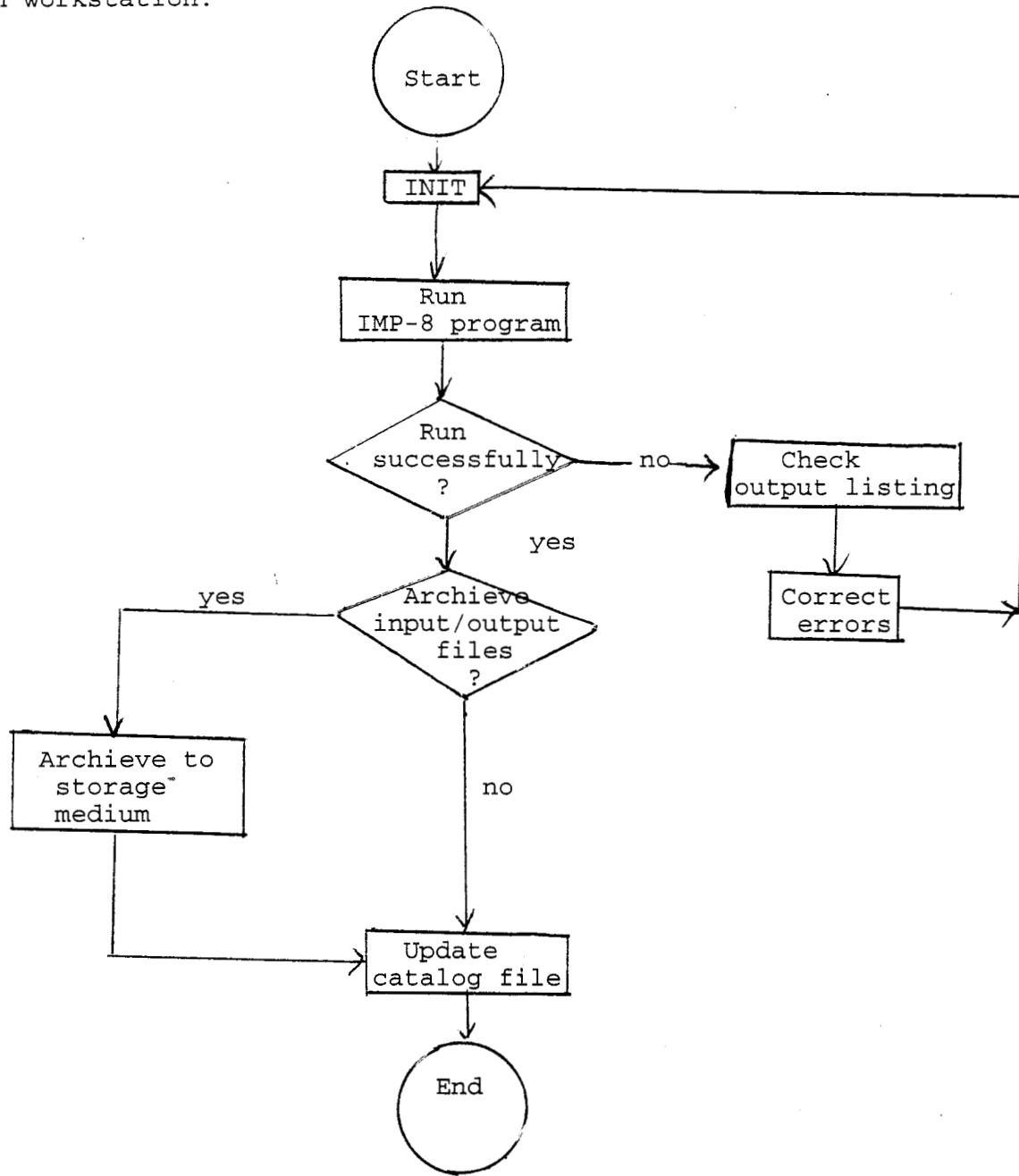
# STRAWMAN IMPLEMENTATION STRATEGY

## O INITIAL GOAL IS ABILITY TO REDUCE DATA WITHOUT MVS ACCESS

## O LEAST COST STRATEGY INVOLVES SALVAGING CODE

- REMAINS FORTRAN-ORIENTED SYSTEM
- TBD SCOPE OF THE ASSEMBLER EFFORT
  - How will defined are subroutines functionally?
  - What fraction associated with catalog system, what with basic data reduction?
- PORT CRITICAL S/W FIRST AND "DISABLE" THE DATABASE/CATALOG SYSTEM
  - Gives ability to flow data in "single DECOM tape" mode
  - Pipe output of each step into next step (ENCY becomes scratch DB?)
    - Initial mode would be fully "manual" operation
- JUNK AND RE-IMPLEMENT DATA FLOW AND FLOW CONTROL
  - Tape type + Interval <=> file mapping
  - ✓ - Files may be kept by "system/directory/name" or by tape (volser)/file #
    - Introduce concept of DECOM "library"
    - TBD issues wrt conversion of word formats

The following diagram is a general procedure to run the IMP-8 program on the Sun workstation.

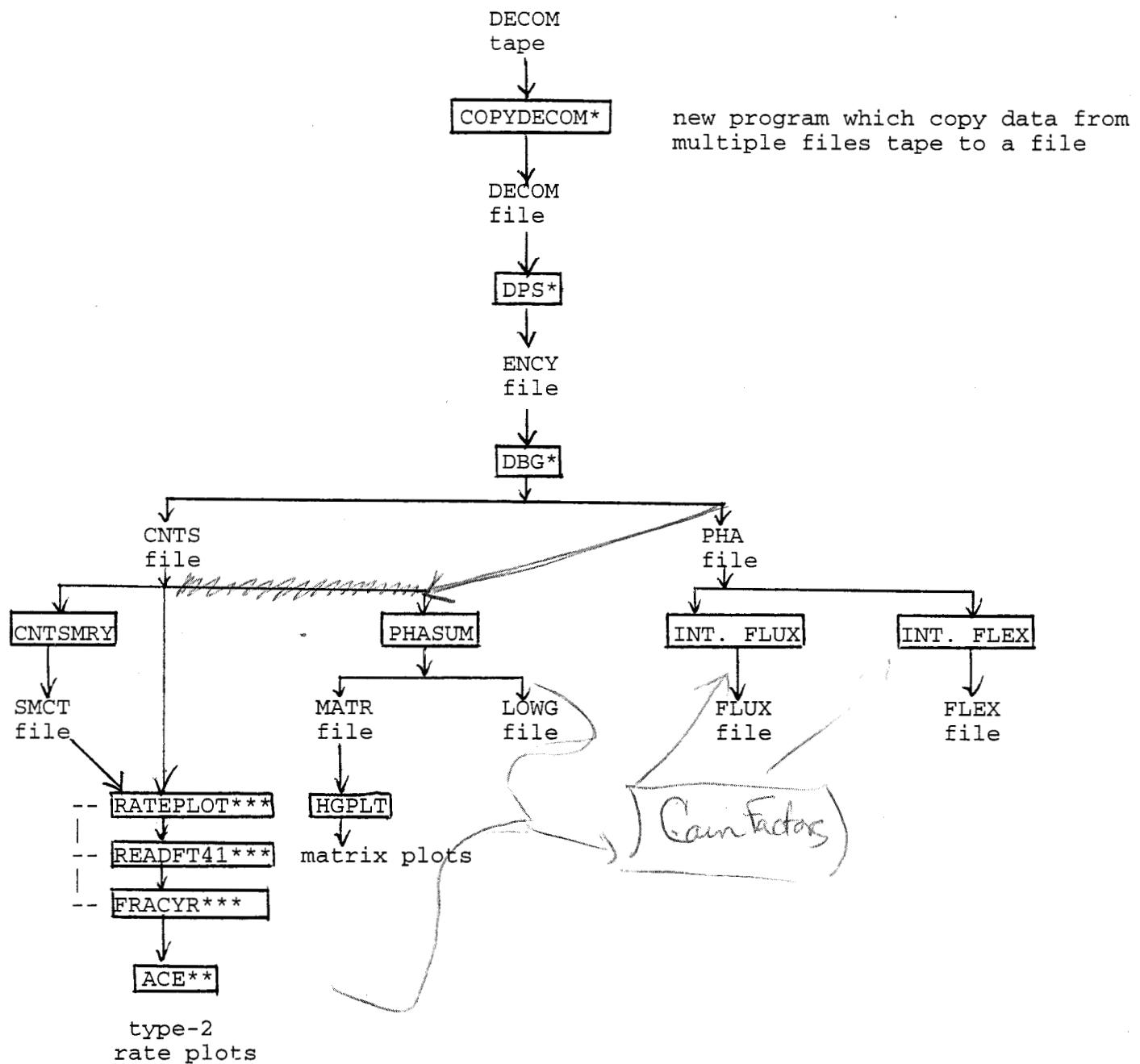


The functions of INIT are as follows :

1. user provide the input information (i.e. IMP-8 DECOM name, interval number)
2. verify the user's input information
3. search the input files information from the existing catalog text file (i.e. location of file etc)
4. create the output file name
5. prepare the input information (i.e. input data on unit 5)

Jan 18th  
Tuesday 1:30

The following data flow diagram shows all the necessary programs needed to generate the IMP-8 one INTERVAL FLUX and FLEX file on Sun workstation.



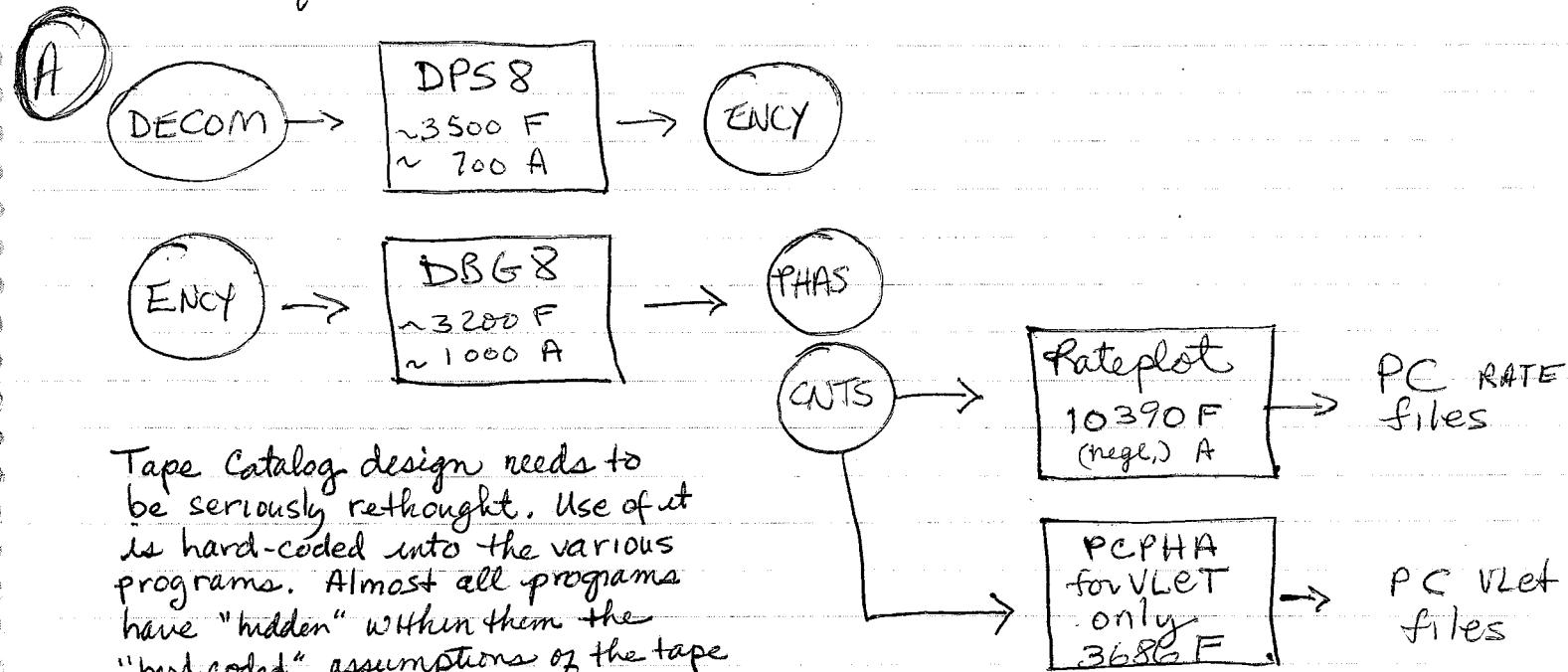
Before run the IMP-8 intermediate Flux and Flex programs, we need to analyze the IMP-8 type 2 rate plots and matrix plots to determine the gain factors, then generate the gain table and finegain table by running the GAINADD and FGADD programs.

\* indicates a working version program on Sun workstation

\*\* indicates a graphical software

\*\*\* indicates RATEPLOT, READFT41 and FRACYR programs can be combined

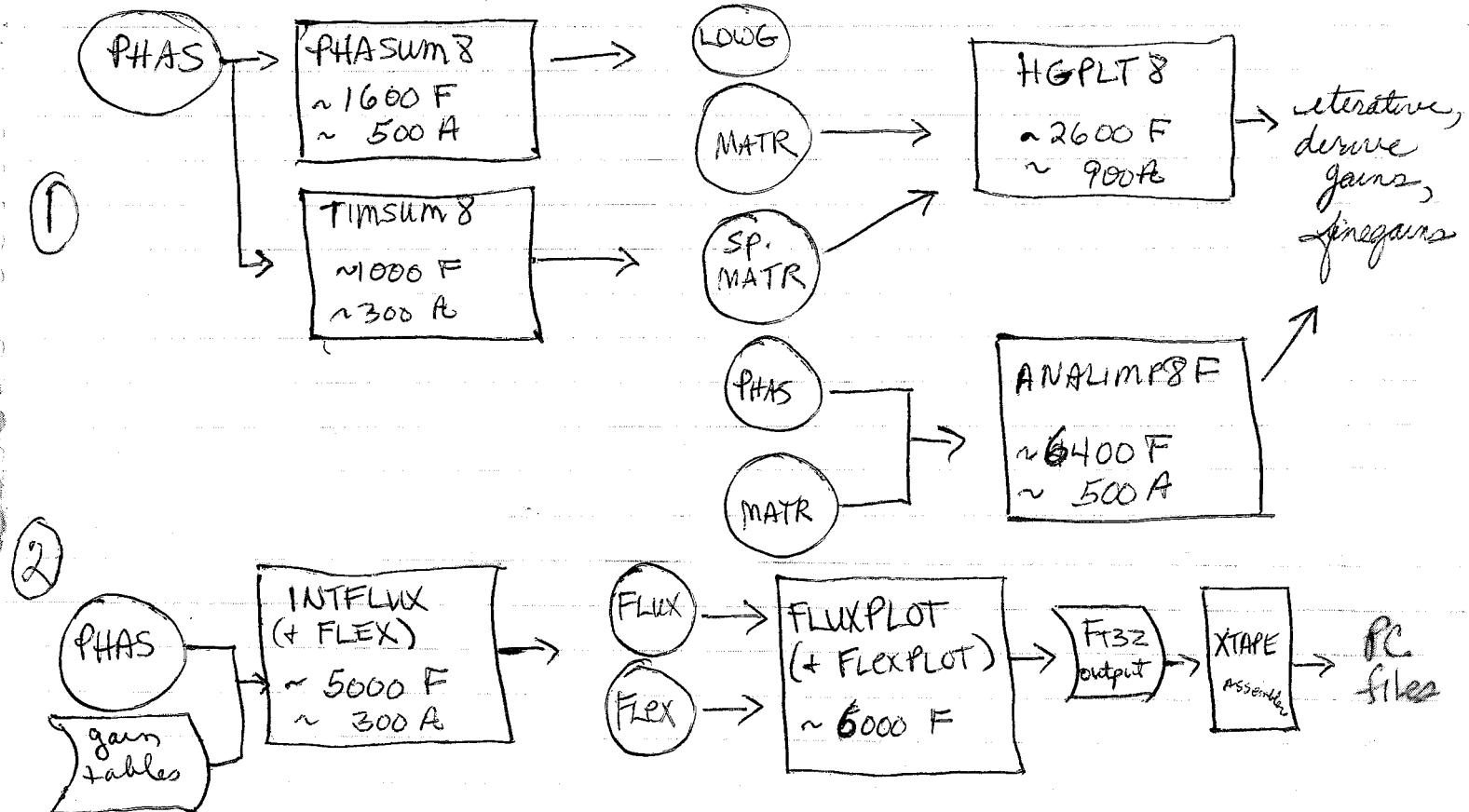
# FROM EXISTING SYSTEM: Functionality Priority for conversion



Tape Catalog design needs to be seriously rethought. Use of it is hard-coded into the various programs. Almost all programs have "hidden" within them the "hard coded" assumptions of the tape types it uses. Work on sections of code is required - not just replacement of 1 tape mount/catalog interface routine.

(both poms use Nanda byte flipping routines to get PC format output)

Next, we need to get gain factors so that fluxes can be calculated. A current non-existent/partially existent PC path could develop at this point. The potential PC Branch is discussed on a separate page.



In the rethinking, the multiple filed tapes must be considered specially:

Case ② The database resides all on disk type media

(1)  
①  
" " " " tape

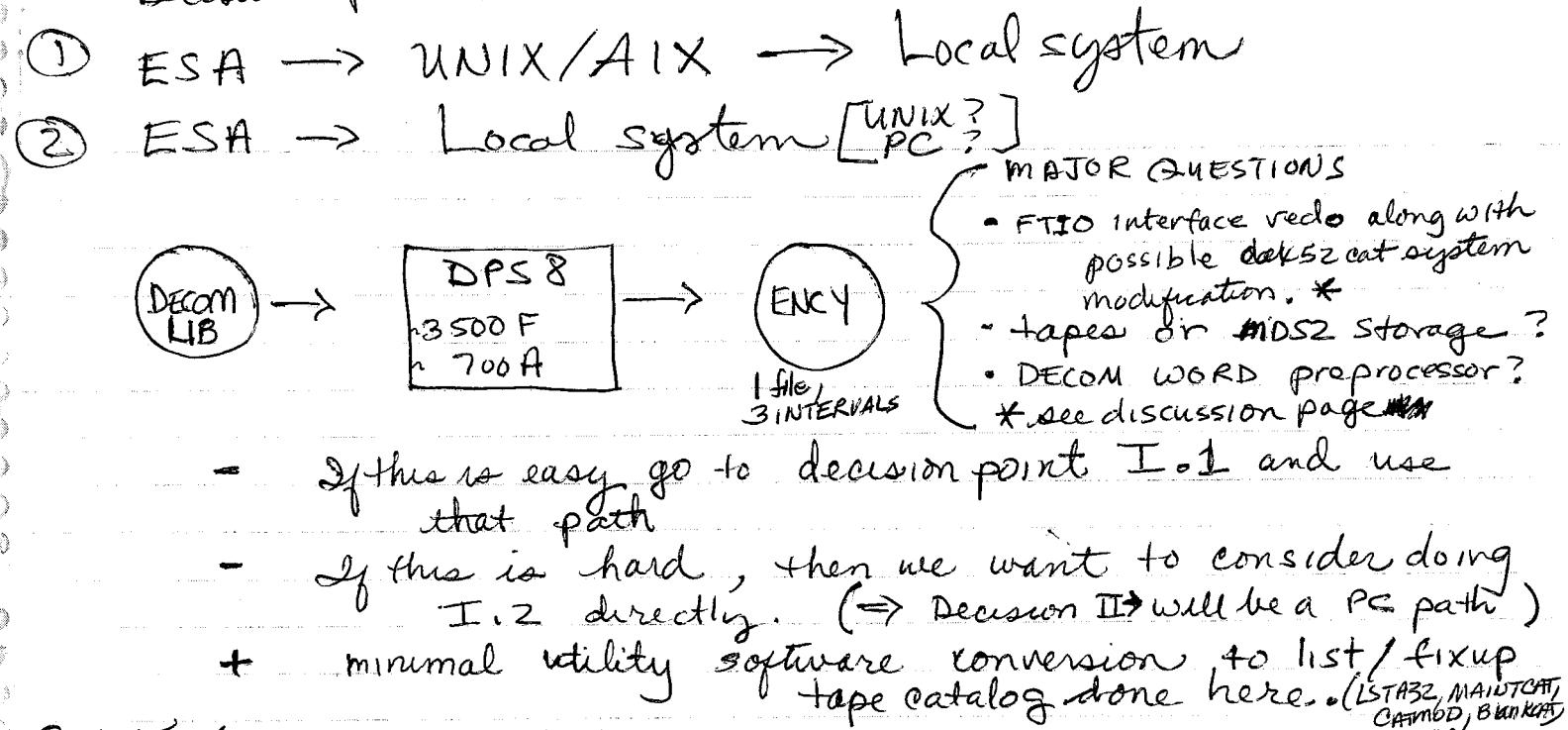
(3)  
" " " " in a mixed environment

where a volume becomes part of the needed information to reference data - whether volume refers to tape or a small optical disk, or another disk/device.

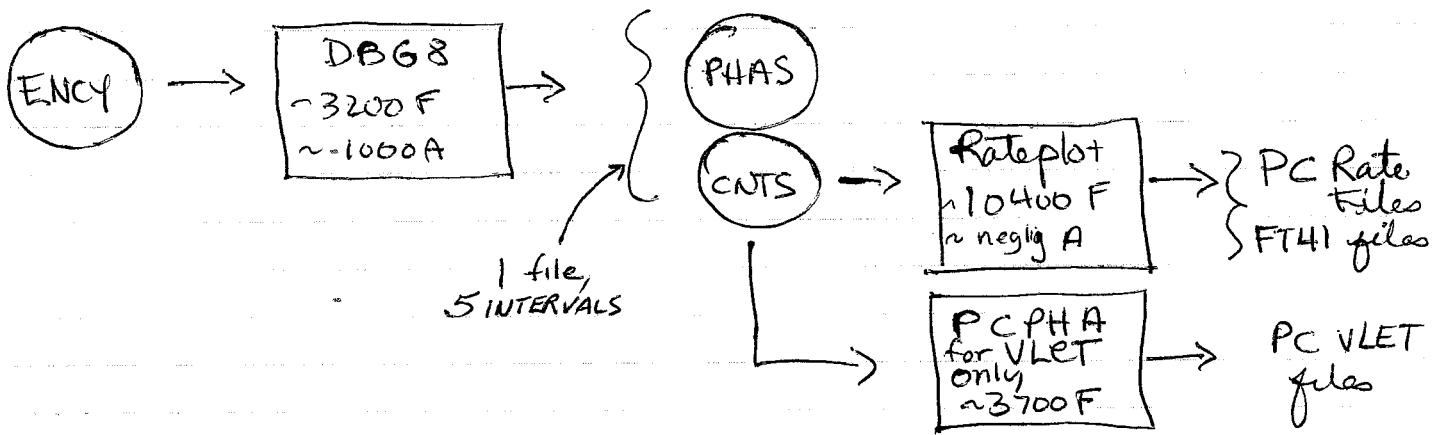
① The easiest conversion would come if all <sup>tape</sup> data / catalogs could be left the way they are, so that all existing code functions the same. We would need FTIO, DATO <sup>(KLC, FMDR, INCRC etc)</sup> functionality and whatever special problems come from how UNIX handles SL tapes <sup>and data set names</sup>. ~~data inserts~~  $\Rightarrow$  new output tape, new data <sup>tape</sup>, old output tape. Old data is copied onto the new output tape until time of insert data; Insert data is processed; the rest of the old data is copied after and the old tape becomes blank (ie reusable). The same general concept is used for multi-filed tapes. In the existing catalog system, the VOLSER name is not fundamental, except that there is an hard coded assumption in some places about the <sup>1st 2</sup> of 6 characters in the name, "Eφ" or "EP" (I6). Blank tapes may be entirely new SL tapes, or a "reusable" <sup>(Blanked)</sup> tape.

Fundamental to the IMP system is the "reel sequence number" associated with the tape type. This reel sequence number represents certain IMP INTERVALS, and no others. The particular span of INTERVALS on a given tape type depends on the tape type (FLUX, VLET, MATR, etc) and its reel sequence number.

## Decision point I



### Path I.1 go on AIX



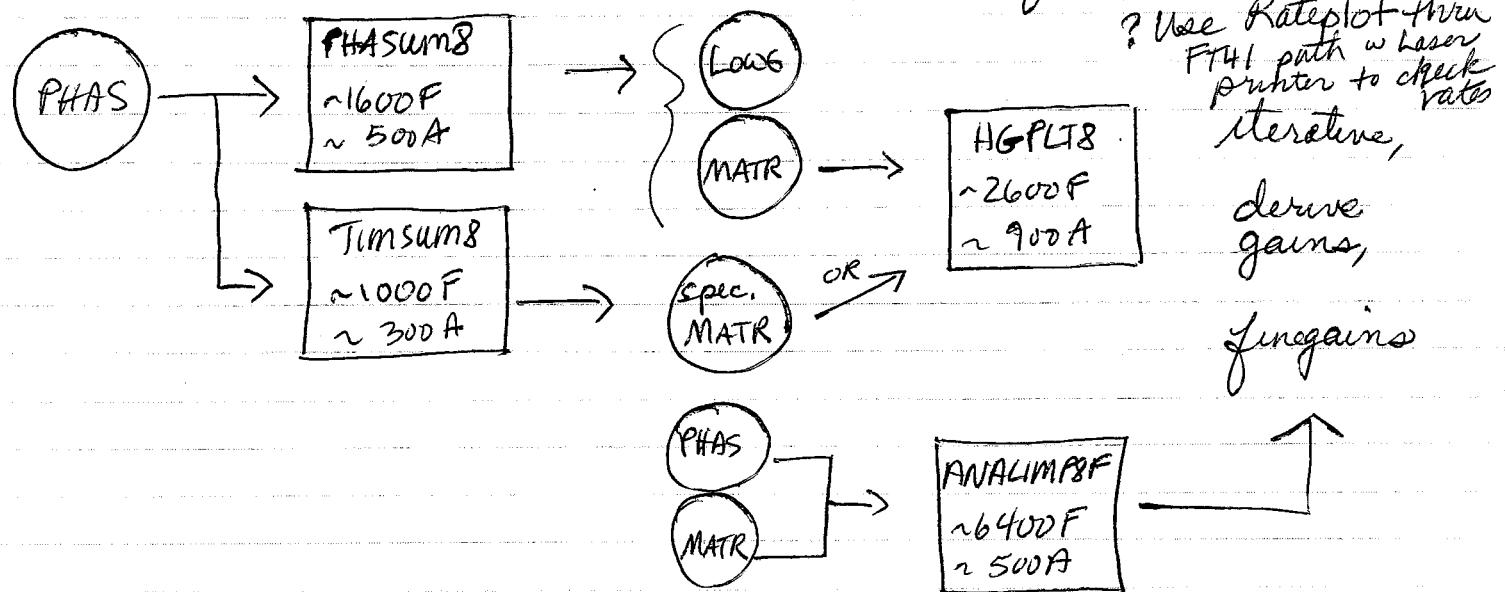
(both programs use Nands byte flipping routines to get PC words)

(Rateplot plots are needed for gain factor determination)

## Decision point II (depends on ANALIMP8F)

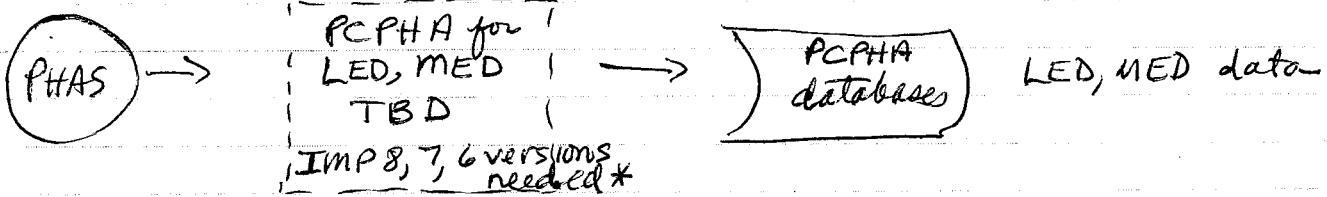
- ① continue ESA → AIX path for determining gain factors and finegain factors
- ② go to PC to determine gain factors and finegains

path II.1 go on AIX to derive gains, finegains

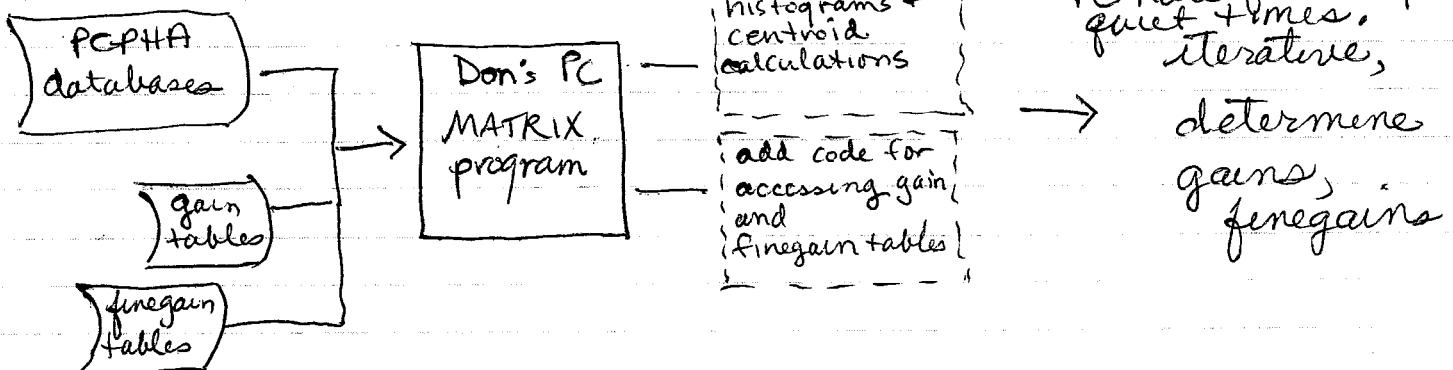


Bob suggests doing analimp8F first. If easy then continue this branch on AIX

path II.2 go to PC to determine gains, finegains



\* PCPHA databases would be used on PC to derive fluxes on PC

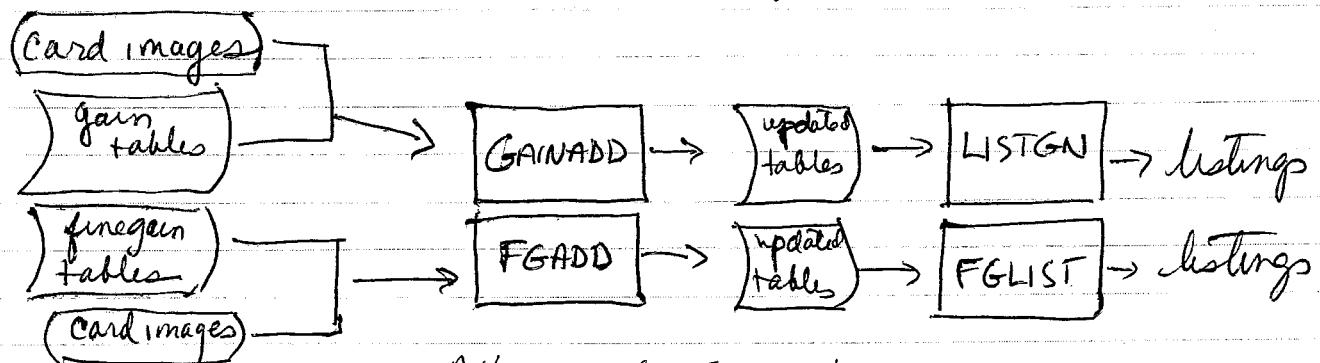


[more gain tables to PC, possibly redesign] [will Don want to maintain / update his MATRIX program to do these ?]

IIa.

gain, finegain values are determined -

- either update tables on mainframe, or on PC
- functions needed (rewrite if tables are redesigned)



All small FORTRAN programs

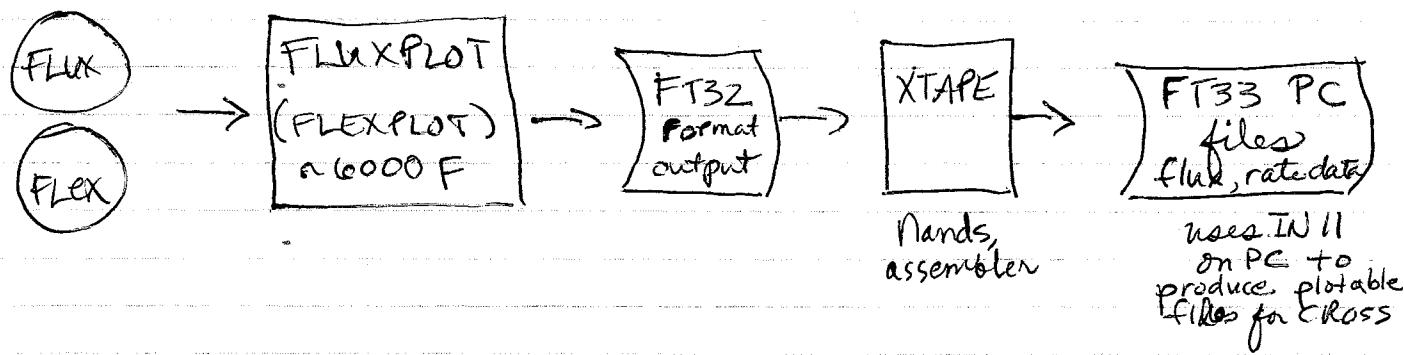
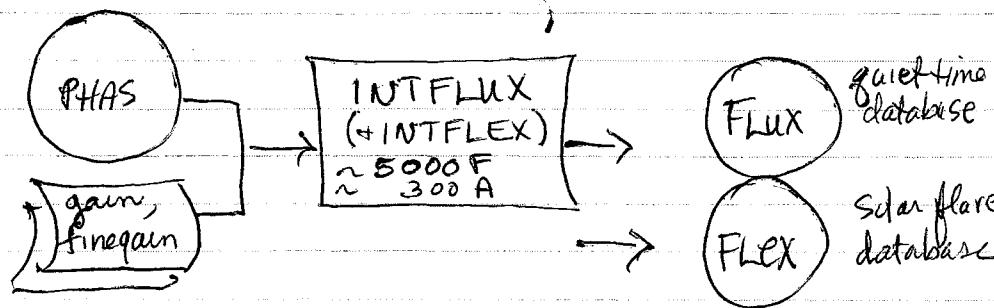
- gain/finegain tables can then be either downloaded to PC for use in subsequent steps or uploaded to mainframe for use in subsequent steps

(software conversion utility may be needed)

Decision point III. ① run intermediate flux/flex steps  
on mainframe  
② run these steps on PC

path III. 1

stay with AIX



path III. 2

move intermediate flux function to PC

- A. We would need to rewrite this to use PC PPHA format input if we left it as is, and wanted to produce a Flux type database. Requires gain, finegain tables on PC. requires dex52cat on PC.  $\Rightarrow$  download dex52cat whenever intflux is run, along with PHAS updates needed for on-going production. Requires a PC Flux PLOT program to read & make flux output.

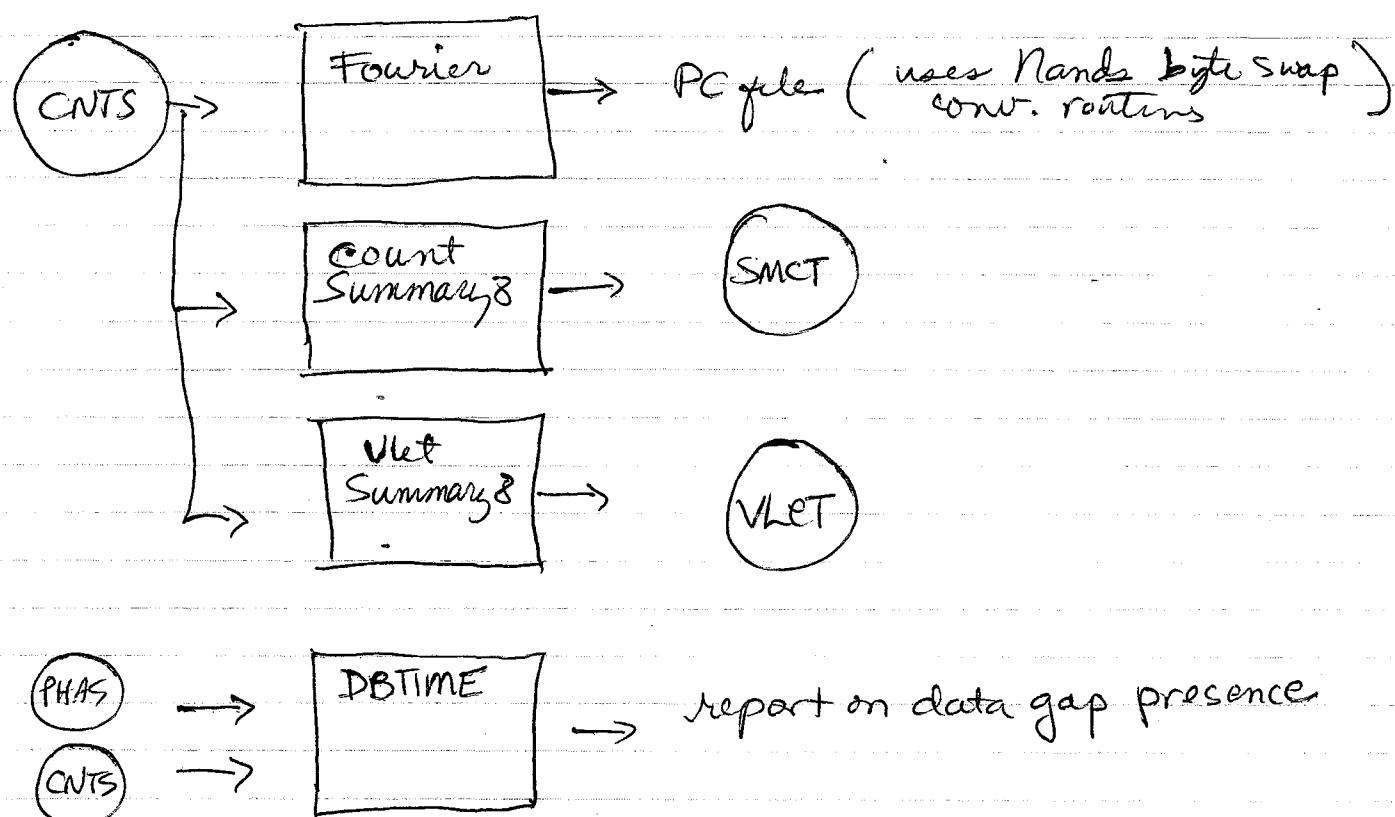
- B. ① Create response tables on PC for LED, MED  
(a difficult task - these are obscurely hard coded into logic branches and common blocks of INTFLUX + INTFLEX pms)

- ② Modify Kristin's PCFLUX program to utilize IMP gains, finegains, responses, peculiar fixups done specifically in Flux & Flex ver's of FluxPLOT

\*\*\* how much time would be used for PCFLUX to make the kind of runs we do for FMED? IS, IT, I6 data is needed

# Utility Program Priority (do as needed)

tape catalog utilities  
gain factor utilities  
"tape" data verification programs  
other



LGPLT8  
ANALIMP8  
I8VLTPLT  
I8PFLUX  
DVSF ANALIMP

Functions not needed?

PRECOM, COMPRESS, COMUTL,  
READCT, COMCHK, PSEUDOFTIO } Compress system software  
I8VLTLIST  
IMPT, 6 versions } RATEPLOT,  
FLUXPLOTS handle all 3 IMPs

② If all tape databases are considered necessary and Bob wants them accessible ~~to the production system~~, ~~tape datasets~~ would need to be put on ~~mass storage~~. The ~~existing catalog~~ and sys ~~will get into trouble for multipled tapes~~ we put all onto MADS<sup>2</sup>. ~~We~~ will want an individual file name for each file of each tape type. I8.FLUX82F60 might be a typical filename construct. (OR VOLSER.I8.FLUX82F60 might be considered, even if VOLSER as a dummy variable in the short term ~~(optical disk on PC system)~~)

In this case, the IMP-8 existing catalog tape volser becomes more like a ~~storage slot~~ record location for words describing the IMP data in that ~~storage slot of the tape~~ dataset. ~~dataset~~

The Imp 'Blanking' function still makes the "slot" available to be used, but no actual physical tape is ever needed - E05602 becomes a "slot" name, rather than a physical volser or storage medium. Mount that tape to file → get that tape type, reel seq#, file - pseudo interface command Existing code sections within all programs ~~would~~ which can add data to files would need to be changed. Inserts into tape types which were single files will work the same, with appropriate changes to FTIO interface. However sections of code operating on multi-filed tapes will need mods. "Copy n files from old tape onto new" <sup>etc</sup> would not be necessary - rather just pickup & operate on the file needed.

#### ~~catalog record counters~~

Programs which can do more than 1 interval at a time, ~~extents~~ or which cross tape boundaries: (tape duplication fn of DPS8)

③ mixed tape + mssr type databases  
? within a tape-type?

Is multi-tasking needed

Bobs priorities:  
Production keeps going.  
PC Pathways existing have priority.

Total PC branch:

I.2 DPS8

DB68 rewrite output?

[PCRATE] replace RATEPLOT function which gets PCRATE database

[PCVLET] replace PCPHA(VLET)

[PCPHA] write PCPHA for LED, MED - produce PHA files

[these are the tools this need] [need 17, 16 [over capability to reformat existing tape]  
data MED LED etc to PCPHA, PCRATE form]

II.2 [Mod Don's Matrix program]

[gain/gain tables to PC] + pgms needed for them

III.2 [Create response tables] I6, I7, I8 needed / utilities

[modify K's: PCFLUX]

PHA → PC databases

CNRS → Rate databases

optical disk

Do we have a PC Fourier?

(how, (if) does it handle magnetic field data input?)

# Program order of conversion and decision making

AIX branch:

DPS8

should we continue on AIX?

DBG8

on AIX, next

ANALIMP8F

on AIX, next - if easy continue with  
rest of gain determination on AIX

RATEPLOT  
(PCVLET)

on AIX, needed to plot rates for gain determination

PHASUM8

TIMSUM8

HGPLT8

GAIN, FINEGAIN modify programs

INTFLUX

INTFLEX

FLUXPLOT (XTAPE)

FLEXPLOT

FOURIER

CNTSMRY8

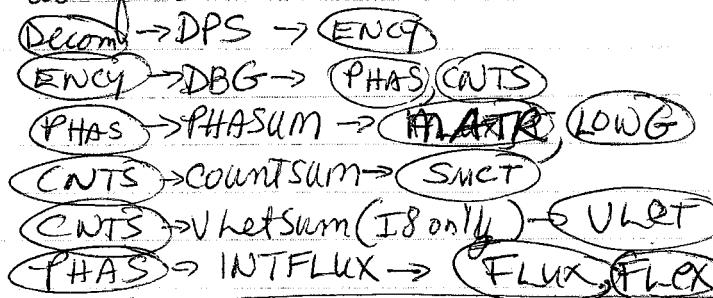
DBTIME

(? others)

	~ total size	~ total volumes on tape.
IMP -8	~ 30 GB	
-7	~ 11 GB	
-6	~ 4 GB	incomplete counts
<hr/> ~ 600 F		~ 120 A
~ 1 lines ~ 80,000 FORTRAN 6300 CNTL JCL		~ 8800 Assembler 2700 CLIST

IMP programs have  $\sim 600^{\text{routines}} \sim 700$  of which about 75 of the original main production/analysis systems are shared.  $\therefore$  Sources for IMP-8 are sometimes in IMP-7 and IMP-6 source datasets.

The original production/analysis programs are as follows:



Original Production

TIMSUM  
 ANALIMP (main gain only access)  
 ANALIMP F (fine gain access vsn)  
 HGPLT<sup>8</sup>  
 LGPLT<sup>8</sup>  
 VLTPLT<sup>8</sup> (I8 only)  
 RATEPLOT  
 FLUXPLOT (+XTAPE)  
 FOURIER  
 (I8-PFLUX)

original analysis programs

TAPEDMPS, I8VLTLIST

production utilities

LST32A

UTILITY SOURCE

Fine GAIN table utilities  
 MAIN GAIN table utilities

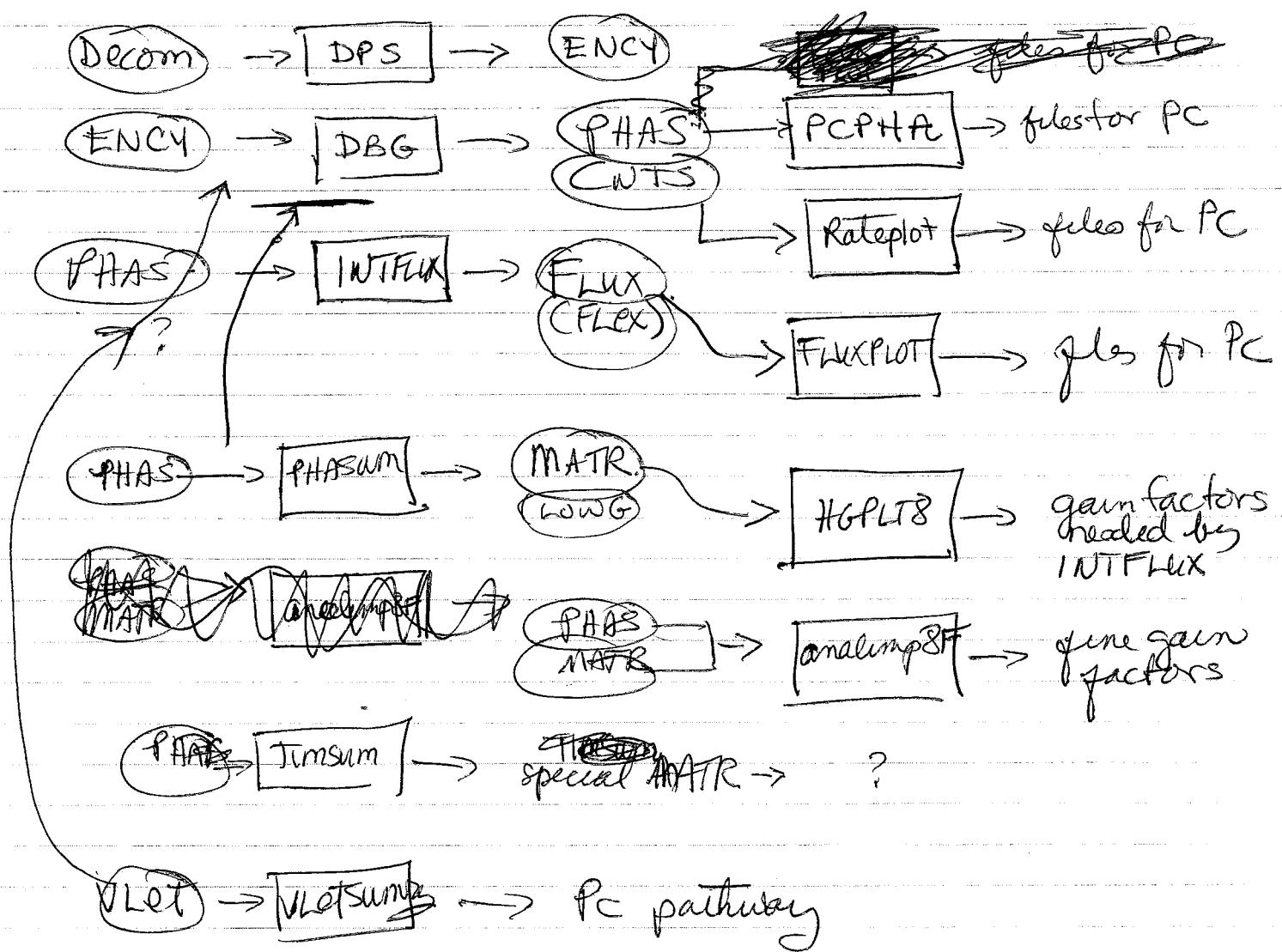
many small, easily adapted programs

Pseudo FTIO

PRECOM, READIT, COMPRESS, COMUTL system  
 DBTIME, COMCHK  
 PCPFFA

Add on production

1st priority of B2b - keep data prod. going, and allow existing paths to PC analysis tools to be maintained.



Rev'd 11/3/89.

November 3, 1989

TO: Distribution  
FROM: Chief, Space Data and Computing Division  
SUBJECT: Data Census Activity

The Information System Office of NASA/OSSA is attempting a census of the NASA data base. The objective is to determine what unique and scientifically important data from past and current NASA missions exist, where these data sets are located, whether the media holding these data show any deterioration, and whether sufficient documentation (possibly including software source code) exist (or could be generated). While many elements of the NASA data base exist in such central archives as NSSDC, many remain distributed at individual Principal Investigator and equivalent sites.

This effort has high visibility at HQ/E, especially given recently expressed GAO concerns about the lack of a comprehensive directory of the widely distributed NASA database. The effort will be pursued on a phased basis, with the data holdings at GSFC (NSSDC and science labs) and at JPL surveyed first. This phase will end January 30, 1990.

Results of this census will be collected into a permanent, but updatable, database so that this global census will not have to be repeated in years to come. It is intended that as a result of this census, a data restoration program may be undertaken whereby higher priority data sets may be migrated to new media and transferred to long term archives for preservation and future accessibility.

Comments from the science community will be solicited on the importance of the data sets identified in the census. Results will include a determination of the funding support to be committed to the overall data restoration effort. It is possible that individual data-holding sites will be funded to restore data, in adherence to NASA/NSSDC guidelines and standards and for the purpose of providing data on new/recent media with adequate documentation (newly generated if necessary) to NSSDC or appropriate Discipline Data System.

Accordingly, I would greatly appreciate your designating, by November 17, a member of your laboratory to work with Dr. Joseph King and the staff of the NSSDC in identifying and characterizing the data sets uniquely held in your

laboratory. An initial meeting of the lab representatives will be scheduled in late November. A survey form equivalent to the attached is to be filled out for each such data set.



Milton Halem

Distribution: C. Cote/610  
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M. Hauser/680  
D. Baker/690

cc: V. Salomonson/600  
J. Green/630.2  
J. King/633

## DATA CENSUS SURVEY - DATA SET ENTRY FORM

**Data Set Common Name:** \_\_\_\_\_

**Data Set Identifier:** \_\_\_\_\_

**Spacecraft/Platform:** \_\_\_\_\_

**Instrument:** \_\_\_\_\_

**Experiment:** \_\_\_\_\_

**Time Span:** \_\_\_\_ / \_\_\_\_ - \_\_\_\_ / \_\_\_\_

**Time Resolution :** \_\_\_\_\_

**Spatial Resolution:** \_\_\_\_\_

**Media (e.g., 6250 bpi mag tape):** \_\_\_\_\_

**Number of volumes:** \_\_\_\_\_

**Byte size estimate:** \_\_\_\_\_

**Scientist:**  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Data contact person:**  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Current data location:**  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Primary keyword:** \_\_\_\_\_

**Secondary keywords:** \_\_\_\_\_

**Parameters in the data set:**

**Discuss Ancillary data:**

**Discuss adequacy of current documentation:**

**Estimate man-days needed to prepare satisfactory documentation:**

**Discuss state of media:**

**Other:**

## DATA CENSUS SURVEY - GUIDELINES FOR DATA SET ENTRY FORM

This Guideline is intended to define the various information items to be provided as part of the data census. Some fields may have multiple values for a few data sets; if so, please add additional lines at the end of the form. Not all fields need to be provided for each data set.

**Data Set Common Name:** A descriptive, informative name. If the data is widely known by a less descriptive but common name, then use the common name. Neither data set source information nor media information need to be included in data set name. Up to 40 characters.

**Data Set Identifier:** Unique identifier (if any) by which the data set is known at its location. Particularly relevant to NSSDC and perhaps a few other major data sites.

**Spacecraft/platform:** Common name of the spacecraft, or equivalent platform, from which data set was obtained. Up to 20 characters.

**Instrument:** Common name (e.g., magnetometer) or proper name (e.g., Total Ozone Mapping Spectrometer) of the Instrument collecting the data. Up to 40 characters.

**Experiment:** The program for which the data were collected; typically designated by a Project or Program Office. Up to 40 characters.

**Time Span:** Specify in the form YY/MM/DD - YY/MM/DD.

**Time Resolution:** (Typical) time interval between successive like data records in the data set. (What is the time resolution of the phenomena addressable with these data?) Specify both a number and its units in up to 20 characters.

**Spatial Resolution:** Typically relevant to earth remote sensing gridded data sets. Specify needed information, number(s) and units thereof, in up to 20 characters.

**Byte size estimate:** Specify either an estimated byte count for the data set, or equivalent information. Equivalent examples are: 1.5 MB/day; "tapes are half full." Up to 20 bytes.

**Scientist:** Knowledgeable person, possibly the Principal Investigator, who can discuss the scientific content and significance of the data set, and the state of the associated documentation. Specify full address and E-mail address if available.

**Data person:** Person responsible for the continued maintenance of the data volumes. Specify full address and E-mail address if available.

**Current data location:** Where are the data physically held? (e.g., facility, building, room).

*LED anti-cointidence*  
*Time slices*

**Primary and secondary keywords:** These are intended to (mostly) mirror the (present) discipline organizational structures at NASA/HQ. These will facilitate the selection and prioritization of data sets for restoration/archiving/etc. by discipline-specific science advisory groups. Permissible values are given in the attachment to this guideline.

The following fields are intended to be filled with textual entries.

**Parameters:** likely values are "sensor outputs" for telemetry data (irrespective of extent to which ancillary data are folded in), "images," "radiances," or specification of the important geophysical parameters derived from the sensor outputs and contained in the data set. (Is the distinction between images and radiances sufficiently clear?)

**Ancillary data:** Are the ancillary data needed to select, retrieve, and correctly interpret the science data of the data set contained within the data set? If not, where are they and how are they accessed?

**Adequacy of the documentation:** Is the documentation needed to enable an advanced graduate student in the data's discipline to retrieve and correctly use the data readily available. If this is a low level data set (e.g., sensor outputs), then are data processing software available?; what is the state of documentation of this software?; how transportable is it?

**Effort to create/upgrade documentation:** Specify your estimate for creation of the needed documentation, if it does not already exist. On what premises do you base your estimate?

**State of media:** This information is intended to estimate the imminence of data volume deterioration. Discussion may include the age range of the media, durations since media were last read, conditions under which data volumes have been stored, recent experiences in trying to read these media, etc.

**IMP**

Time history & spectra  
Voyager / ISEE  
Protons 5 - > 400 MeV  
2 1.48 - 485 > 400  
d 1.48 - 455 > 400  
CNO 1.49 - 40.8 \*  
NeSI mg 5.8 - 40.8 \*  
1RnN 8.8 - 40.9 \*  
elect. 3.6 - 18

+ rates VLET Li → Ni  
Singlest. t.  
FLUXPILOT Hard coded  
on/off criteria,  
dead time correction

\* IMP 1.5-4 (LED)  
only in Flux Boxes  
no other fluxes

sectors available

ancillary - magnetic fields / solar wind data  
- Voyager/ISEE dead layers for bin definition

Time history & spectra

Voyager / ISEE

1-500 MeV/nuc

Charge composition

Nuclear charge 1-28

[see Sector data]

1. Let 2 Mev/nuc - > 5 mev/nuc

He-3 1.3-7.9 mev/nuc

Voyager LET 1 ≤ Z ≤ 30  
below Let to ~1 mev/nuc

Electron TET ~ 5-10 MeV

rates data

PTA

internal calibration

Engineering + housekeeping

General to all (?) only to check  
instrument status

Helios 1-2 \*  
21-21.1p Let II  
3 - 800 MeV/nuc HET+Let II  
Standard spectral bins  
Prd

Sectors of specific  
rates with a known  
energy range

Sectorized X-ray data 2-8 keV

electrons 2-8 MeV HET  
1.2 - 2 Let II

**Solid state detectors**  
Pioneer  
p 100 KeV - 800 MeV  
heavier ions up to Z = 10  
α - 3 - 800 Let I, HET  
electrons Let II  
50-1000 KeV  
P 50 KeV - 20 MeV  
resolution  
20-70 resolution

+ sectors of selected coincidence mode

Sectors

## **DATA CENSUS SURVEY - PERMISSIBLE DISCIPLINE KEYWORDS**

(Discussions are given in lower case)

### **ASTROPHYSICS**

**HIGH ENERGY (X-rays, gamma rays; not cosmic ray particles)**

**OPTICAL/UV**

**LOW ENERGY (infrared, radio waves, microwaves, etc.)**

### **EARTH SCIENCE**

**ATMOSPHERE (from just above land/ocean surface to 80 km)**

**LAND SURFACE**

**OCEAN (hydrosphere)**

**GEOPHYSICS (seismology, low altitude magnetometry, gravimetry, etc.)**

### **LIFE SCIENCE**

**MICROGRAVITY (materials science, etc.)**

### **PLANETARY/LUNAR**

**LUNAR**

**TBD (one entry for each new PDS discipline node)**

### **SOLAR/SPACE PHYSICS**

**SOLAR (electromagnetic)**

**HELIOSPHERE (cosmic rays, solar wind, etc.)**

**MAGNETOSPHERE**

**IONOSPHERE (including neutral atmosphere down to 80 km)**

# XRPAS. CENSUS. DATA

Pam -  
Info needed by C.O.B Wed,  
please.  
Nancy L.  
February 20, 1990

## CODE 660 SCIENTIFIC DATA BASES

HEAO-1	MAXTAPES	Jean Swank
HEAO-2	DATA BASE	Jean Swank
HEAO-2	LEVEL 2 RUNS	Jean Swank
HEAO-2	OCCULTATION DATA	Jean Swank
HEAO-2	PROD DATA	Jean Swank
HELIOS-A	CEDR (COMPRESSED EDRS)	COMPLETED
HELIOS-A	EDRS	INCLUDED IN CEDR
HELIOS-A	FLUX	COMPLETED
HELIOS-A	ORBIT/TRAJECTORY	ANCILLARY
HELIOS-A	PHA	COMPLETED
HELIOS-A	RATES	COMPLETED
HELIOS-B	CEDR (COMPRESSED EDRS)	COMPLETED
HELIOS-B	EDRS	INCLUDED IN CEDR
HELIOS-B	FLUX	COMPLETED
HELIOS-B	ORBIT/TRAJECTORY	ANCILLARY
HELIOS-B	PHA	COMPLETED
HELIOS-B	RATES	COMPLETED
IMP-4	FINAL DATA SET	NEED TO LOOK INTO
IMP-4	HAGGE	NEED TO LOOK INTO
IMP-4	MATRIX	NEED TO LOOK INTO
IMP-4	ORBITS	NEED TO LOOK INTO
IMP-4	TREND	NEED TO LOOK INTO
IMP-5	COUNTS	NEED TO LOOK INTO
IMP-5	FINAL DATA SET	NEED TO LOOK INTO
IMP-5	FLUX	NEED TO LOOK INTO
IMP-5	HAGGE	NEED TO LOOK INTO
IMP-5	MATRIX	NEED TO LOOK INTO
IMP-5	TREND	NEED TO LOOK INTO
IMP-6 EXP 11	COUNTS	COMPLETED
IMP-6	EDRS	NO. TO BE RELEASED AFTER DATA RECOVERY/COMPRESSION
IMP-6	ENCY	INCLUDED IN COUNTS AND PHAS
IMP-6	FLUX	NMS TO COMPLETE
IMP-6	PHAS	COMPLETED
IMP-6	SMCT	INCLUDED IN COUNTS. (15 MIN)
IMP-7 EXP 32	CNTS	COMPLETED
IMP-7	ENCY	INCLUDED IN COUNTS AND PHAS
IMP-7	FLEX	NMS TO COMPLETE
IMP-7	FLUX	NMS TO COMPLETE
IMP-7	PHAS	COMPLETED
IMP-7	LOWG	NO. DERIVED FROM PHA
IMP-7	MATRIX	NO. DERIVED FROM PHA

IMP-7	SMCT	INCLUDED IN COUNTS
IMP-7 EXP28	CAT/EDRS?	TOM CLINE
IMP-8 EXP 52	CNTS	COMPLETED
IMP-8	DECOM	NO. TO BE RELEASED AFTER DATA RECOVERY/COMPRESSION
IMP-8	ENCY	INCLUDED IN COUNTS AND PHAS
IMP-8	FLEX	NMS TO COMPLETE
IMP-8	FLUX	NMS TO COMPLETE
IMP-8	LOWG	NO. DERIVED FROM PHA
IMP-8	MATR	NO. DERIVED FROM PHA
IMP-8	PHAS	COMPLETED
IMP-8	SMCT	INCLUDED IN COUNTS. (15 MIN)
IMP-8	OL, TVAC	???
IMP-8	VLETS	???
ISEE-3 CR DATA POOL	EDRS	HELD AT NSSDC
ISEE-3 CR DATA POOL	ENCYS	PAM SCHUSTER TO FILL OUT SECOND PAGE.
ISEE-3 CR DATA POOL	LIBRARY	PAM SCHUSTER TO FILL OUT SECOND PAGE.
ISEE-3 CR	EDRS	TO BE RELEASED. INCLUDED ON LIBRARY TAPES (EXCEPT DUPLICATE DATA)
ISEE-3 CR	ENCYS	COMPLETED
ISEE-3 CR	LIBRARY	COMPLETED
ISEE-3 GR	DECOM (B. TEEGARDEN)	ASK BONNARD TEEGARDEN
OGO-E	EDRS	NEED TO LOOK INTO
OGO-E	ENCY	NEED TO LOOK INTO
OGO-E	FLUX	NEED TO LOOK INTO
OSO-I	PHA	Jean Swank
OSO-I	PROD RUNS	Jean Swank
OSO-I	RATES	Jean Swank
PIONEER-F (-10)	EDRS	WE HAVE ONLY RETAINED IMPORTANT TIME PERIODS
PIONEER-F	PENC (FLUX)	COMPLETED
PIONEER-F	PHAS	COMPLETED
PIONEER-F	RATES	COMPLETED
PIONEER-F	TRAJECTORY	ANCILLARY
PIONEER-F	SEDR	WE HAVE ONLY RETAINED IMPORTANT TIME PERIODS
PIONEER-G (-11)	EDRS	WE HAVE ONLY RETAINED IMPORTANT TIME PERIODS
PIONEER-G	6250 FLUX	NMS TO COMPLETE
PIONEER-G	PHA	COMPLETED
PIONEER-G	RATES	COMPLETED
PIONEER-G	TRAJECTORY	ANCILLARY
SAS	PERFORMANCE TAPES	CARL FICHTEL
VOYAGER-1	EDRS	WE HAVE ONLY RETAINED IMPORTANT TIME PERIODS

VOYAGER-1	ENCY	COMPLETED
VOYAGER-1	LIBRARY	COMPLETED
VOYAGER-1	CODE 690 TRAJECTORY DATA BASE	ANCILLARY
VOYAGER-2	EDRS	WE HAVE ONLY RETAINED IMPORTANT TIME PERIODS
VOYAGER-2	ENCY	COMPLETED
VOYAGER-2	LIBRARY	COMPLETED
VOYAGER-2	JUPITER ENCOUNTER	WE HAVE ONLY RETAINED IMPORTANT TIME PERIODS
VOYAGER-2	SCR	WE HAVE ONLY RETAINED IMPORTANT TIME PERIODS
VOYAGER-2	CODE 690 TRAJECTORY DATA BASE	ANCILLARY
VOYAGER-2	URANUS ENCOUNTER	WE HAVE ONLY RETAINED IMPORTANT TIME PERIODS

# **DATA CENSUS SURVEY - DATA SET ENTRY FORM**

Data Set Common Name: IMP-6 EX11 Cosmic Ray Data

**Data Set Identifier:** IMP-I CNTS+PHAS DATA BASE

**Spacecraft/Platform:** IMP-I

Instrument: COSMIC RAY EXPERIMENT

Experiment: EX11

**Time Span:** 3/13/71 - 10/2/74

Time Resolution: 181.92 sec. per record

Spatial Resolution: EARTH ORBITING SATELITE  
Media (e.g. 6250 bpi mag tape): IBM 6250 BPI 9TR reel tapes

Number of volumes: 186 (63 CNTS) 63 PHAS )

**Byte size estimate:** ~~1800 megabytes~~ ~~erts + PTA~~

**Scientist:** Bob McGuire

**Data contact person:**

**Current data location:**

**Primary keyword:**

#### **Secondary keywords:**

## DATA CENSUS SURVEY - DATA SET ENTRY FORM

Data Set Common Name: IMP-7 EX32 COSMIC RAY DATAData Set Identifier: IMPH\_CNTS - PHAS DATA BASESpacecraft/Platform: IMP-14Instrument: COSMIC RAY EXPExperiment: EX32Time Span: 9/15/72 - 10/19/78Time Resolution: 81.92 SEC.Spatial Resolution: EARTH ORBITING SATELITEMedia (e.g., 6250 bpi mag tape): IBM 6250 BPI 9TR REEL TAPESNumber of volumes: IBM 3480 CARTRIDGES280 (110 CNTS) (110 PHAS)Byte size estimate: 5000 megabytesScientist: Bob McGuireTycho von RosenvingeData contact person: NANCY SMITH (NASA)Current data location: NASA GODDARD SPACE FLIGHT CNTR (BLDG 1)TEST(10M 3081  
COMPUTER AREA)Primary keyword: SOLAR / SPACE PHYSICSSecondary keywords:

1111-0  
Currently active

DATA CENSUS SURVEY - DATA SET ENTRY FORM

Data Set Common Name: IMP-8 EX52 COSMIC RAY DATA

Data Set Identifier: IMP-8 COUNTS & PHAS DATA BASE

Spacecraft/Platform: IMP-8

Instrument: COSMIC RAY EXPERIMENT

Experiment: EX52

Time Span: 10/30/73 - 10/27/89

Time Resolution: 81.92

Spatial Resolution: EARTH ORBITING SATELITE

Media (e.g., 6250 bpi mag tape): IBM 6250 BPI 9TR REEL TAPES, IBM 3480 CARTRIDGE

Number of volumes: 626 (313 COUNTS) (313 PHAS)

Byte size estimate: 12000 mega bytes

Scientist: Bob McGuire  
Tycho Von Rosenvinge

Data contact person: Nancy Smith (NASA)

Current data location: NASA GODDARD SPACE FLIGHT CNTR (BLDG 1, IBM 3081 COMPUTER AREA)

Test

Primary keyword: SOLAR/SPACE PHYSICS

Secondary keywords:

I SEE -3  
DATA POOL  
LIBRARY  
+  
Envy

DATA CENSUS SURVEY - DATA SET ENTRY FORM

Data Set Common Name: ISEE-3 datapool data

Data Set Identifier: ISEE-3 DATAPOOL LIB+ENVY

Spacecraft/Platform: ISEE-3

Instrument: ALL INSTRUMENTS ON BOARD (8+ SpaceCraft general trajectory information)

Experiment:

Time Span: 7918112 - 871113

Time Resolution: 64 mins, but within that time different experimental quantities are determined at higher time resolution

Spatial Resolution: Data near 1AU from the sun

Media (e.g., 6250 bpi mag tape): IBM 6250 BPI 9TRK Reel Tapes 16M 3480 Cassette

Number of volumes: 4 (lib) (2 Envy)

Byte size estimate: (600 mega bytes lib. tapes) (235 mega bytes envy tapes)

Scientist: Tycho Von Rosevninge

Data contact person:

Current data location:

Primary keyword:

Secondary keywords:

1 SEE-3  
LIBRARY TAPES,  
currently active

DATA CENSUS SURVEY - DATA SET ENTRY FORM

Data Set Common Name: 1 SEE-3 COSMIC RAY DATA (LIBRARY TAPE DATA)

Data Set Identifier: 1 SEE-3 LIBRARY TAPES

Spacecraft/Platform: 1 SEE-3

Instrument: COSMIC RAY DATA

Experiment: EX 33

Time Span: 1818112 - 8911214

Time Resolution: bit rate dependent

Spatial Resolution: DATA NEAR 1AU FROM THE SUN

Media (e.g., 6250 bpi mag tape): 16M 6250 BPI 9TK REEL TAPES  
16M 3480 CARTRIDGES

Number of volumes: 52 (16) Volumes

Byte size estimate: 8550 megabytes

Scientist: Tycho von Rosenvinge

Data contact person: Nancy Smith

Current data location: NASA GODDARD SPACE FLIGHT CTR. (BLDG 1, 10M 3081 COMPUTER AREA)  
TEST

Primary keyword: SOLAR / SPACE PHYSICS

Secondary keywords:

encyclopedia tape  
currently active

DATA CENSUS SURVEY - DATA SET ENTRY FORM

Data Set Common Name: ISEE COSMIC RAY DATA (ENCY TAPE DATA)

Data Set Identifier: ISEE-3 ENCY TAPE

Spacecraft/Platform: ISEE-3

Instrument: COSMIC PHY DATA

Experiment: EX 33

Time Span: 781812 - 8912116

Time Resolution: 15 min (ENCY TAPE DATA)

Spatial Resolution: DATA NEAR JAU FROM THE SUN

16M 6250 BPI 9TR REEL TAPES

Media (e.g., 6250 bpi mag tape): 16M 3480 CARTRIDGES

Number of volumes: 38 (ENCY)

Byte size estimate: 4000 mega bytes

Scientist: Tycho von ROSENINCE

Data contact person: Nancy Smith

Current data location: NASA GODDARD SPACE FLIGHT CNTR. (LOG 1, 16M 3081 COMPUTER AREA)  
TSST

Primary keyword: SOLAR/SPACE PHYSICS

Secondary keywords:

VOYAGER 1  
library

DATA CENSUS SURVEY - DATA SET ENTRY FORM

Data Set Common Name: VOYAGER-1 COSMIC RAY DATA (LIB.TAPE DATA)

Data Set Identifier: VOYAGER 1(LIB. TAPES)

Spacecraft/Platform: VOYAGER 1

Instrument: COSMIC RAY EXPERIMENT

Experiment: CRS

Time Span: 9/17/77 - 12/19/89

Time Resolution: depends on spacecraft data mode of acquisition

Spatial Resolution: Solar System + beyond, data above ecliptic plane  
IBM 6250 BPI, 4 TK REEL TAPES

Media (e.g., 6250 bpi mag tape): 12M 3480 CARTRIDGES

Number of volumes: 40 LIB.

Byte size estimate: 6000 mega bytes

Scientist: Frank McDonald

Data contact person: David Ladd

Current data location: \_\_\_\_\_

Primary keyword: \_\_\_\_\_

Secondary keywords: \_\_\_\_\_

Voyager 1  
Eray tape

DATA CENSUS SURVEY - DATA SET ENTRY FORM

Data Set Common Name: Voyager 1 Cosmic Ray Data (eray tape data)

Data Set Identifier: Voyager 1 Eray tape

Spacecraft/Platform: Voyager 1

Instrument: Cosmic Ray Experiment

Experiment: CRS

Time Span: 917122 - 1443189

Time Resolution: 15 min data summaries

Spatial Resolution: Solar System + beyond, data above ecliptic plane  
IBM 6250 BP3 + 97K Reel tapes

Media (e.g., 6250 bpi mag tape): IBM 3480 cartridges

Number of volumes: 39 eray

Byte size estimate: 4100 mega bytes

Scientist: Frank McDonald

Data contact person: Mark Slat

Current data location: Solar/ Space Physics

Primary keyword:

Secondary keywords:

Voyager 2  
early tapes

DATA CENSUS SURVEY - DATA SET ENTRY FORM

Data Set Common Name: Voyager 2 Cosmic Ray Data (early tape data)

Data Set Identifier: Voyager 2 (lib+tapes)

Spacecraft/Platform: Voyager - 2

Instrument: Cosmic Ray Experiment

Experiment: CRS

Time Span: 618179 - 1119189

Time Resolution: 15 min data summaries

Spatial Resolution: data on ecliptic plane  
IBM 6250 BPI, 9TR reel tapes

Media (e.g., 6250 bpi mag tape): IBM 3480 cartridges

Number of volumes: 50 (early tapes)

Byte size estimate: 5300 mega bytes

Scientist: Frank McDonald

Data contact person: Nanell Sae

Current data location: -----

Primary keyword: Solar/ Space Physics

Secondary keywords: -----

Voyager 2  
lib. tapes

DATA CENSUS SURVEY - DATA SET ENTRY FORM

Data Set Common Name:

Voyager 2 Cosmic Ray Data (lib. Tape data)

Data Set Identifier:

Voyager 2 lib. tapes

Spacecraft/Platform:

Voyager-2

Instrument:

Cosmic Ray Experiment

Experiment:

CRS

Time Span:

8/22/77 - 12/4/89

Time Resolution:

depends on Space Craft data mode of acquisition

Spatial Resolution:

Data in ecliptic plane  
IBM 6250 BPI 97K/Sec tapes

Media (e.g., 6250 bpi mag tape): IBM 3480 Cartridge

Number of volumes:

64

Byte size estimate:

9600 mega bytes

Scientist:

Frank McDonald

Data contact person:

Paul Hall

Current data location:

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Primary keyword:

Solar/Space Physics

Secondary keywords:

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*Nelios A*

DATA CENSUS SURVEY - DATA SET ENTRY FORM

Data Set Common Name: Nelios A (1) compressed EDR DATABASE

Data Set Identifier: HA-CEDR

Spacecraft/Platform: Nelios A

Instrument: Cosmic Ray

Experiment: EX 7

Time Span: 12/14/74 - 2/2/84

Time Resolution: bit rate dependent (4096 - 8 BPS)

Spatial Resolution: Sun / EARTH ORBIT

Media (e.g., 6250 bpi mag tape): IBM 6250 BPI AT&T reel tapes

Number of volumes: 80

Byte size estimate: 2400 megabytes

Scientist: FRANK McDANIEL, James T. Kaler

Data contact person: KRISTIN WORTMAN, Pam Schuster

Current data location:

Primary keyword: SOLAR / SPACE PHYSICS

Secondary keywords:

Helios A

DATA CENSUS SURVEY - DATA SET ENTRY FORM

Data Set Common Name: Helios A (PHAs & Rate tape database)

Data Set Identifier: PHAs or RATE

Spacecraft/Platform: Helios A

Instrument: Cosmic Ray Experiment

Experiment: Ex 7

Time Span: 12/14/74 - 24/12/84

Time Resolution: Bit Rate dependent

Spatial Resolution: EARTH / SUN ORBIT

Media (e.g., 6250 bpi mag tape): 16M 3480 cartridge

Number of volumes: 13 PHA, 10 RATE TAPES

Byte size estimate: PHA-300 megabytes, RATE 300 megabytes

Scientist: Frank McDonald, Jim Trickey

Data contact person: Kristen Wontman, Paul Schuster

Current data location:

Primary keyword: Solar/Space Physics

Secondary keywords:

## DATA CENSUS SURVEY - DATA SET ENTRY FORM

Data Set Common Name: Helios B (PHM & RATE Tape Database)

Data Set Identifier: PHM & RATE

Spacecraft/Platform: Helios B

Instrument: Cosmic Ray Experiment

Experiment: EX 7

Time Span: 12476 - 318180

Time Resolution: Bit Rate dependent?

Spatial Resolution: EARTH / SUN ORBIT

Media (e.g., 6250 bpi mag tape): IBM 6250 9TR BPI reel tape  
1DM-3480 cartridge

Number of volumes: 29 PHM, 13 RATE TAPES

Byte size estimate: PHM-800 megabytes, RATE 350 megabytes

Scientist: E. McDonald or Jim Irene

Data contact person: Kristin Wortman, Pam Schuster

Current data location:

Primary keyword: Solar/Space Physics

Secondary keywords:

## **DATA CENSUS SURVEY - DATA SET ENTRY FORM**

Melvin S.

Data Set Common Name: Helios B(2) Compressed EDR Database

**Data Set Identifier:** HBCEDR -----

Spacecraft/Platform: Helios B

Instrument Cosmic Ray

Experiment: exit

**Time Span:** 1/23/76 - 3/18/80

**Time Resolution :** Bit Rate dependent

## Spatial Resolution: SUN/ EARTH ORBIT

Media (e.g., 6250 bpi mag tape): 16M 6250 BPI 4TR reel tapes  
--+ 6M 3450 cartridges

**Number of volumes:** 100

Date when estimated: 3/2022 - Mine Point

Syntesis osztályos: 3000 Május

Scientist: FRANK McDONALD

— — — — —

Data contact person: KRISTIN WORTMAN

**Current data location:** \_\_\_\_\_

**Primary keyword:** SOLAR / SPACE PHYSICS

**Secondary keywords:** \_\_\_\_\_

DATA CENSUS SURVEY - DATA SET ENTRY FORM

Data Set Common Name: Pioneer 10 (PHA, RATE & FLUX, database)

Data Set Identifier: PHA, RATE & PENC

Spacecraft/Platform: Pioneer 10

Instrument: Cosmic Ray Experiment

Experiment: GSFC/crt

Time Span: 316 502 - 1126189

Time Resolution: Bit Rate dependent (4096-8 BPS)

Spatial Resolution: SOLAR SYSTEM & BEYOND  
113m G250 BDI 9TK reel tape

Media (e.g., 6250 bpi mag tape): 16m 3480 cartridge

Number of volumes: 36 PHA + 41 RATE tapes, 15 PENC TAPES

Byte size estimate: PHA - 1200 mega bytes, RATE 1400 mega bytes, PENC 2500 mega bytes

Scientist: FERNIE McDONALD (Jim) Trainer  
Bonard Teegartha

Data contact person: KRISTIN WORTMAN, Pam Schuster

Current data location: \_\_\_\_\_

Primary keyword: Solar/Space Physics

Secondary keywords: \_\_\_\_\_

DATA CENSUS SURVEY - DATA SET ENTRY FORM

Data Set Common Name:

Pioneer 11 (PHA + RATE tape database)

Data Set Identifier:

PHA + RATE

Spacecraft/Platform:

Pioneer 11

Instrument:

Cosmic Ray Experiment

Experiment:

GSFC/CRT

Time Span:

4/8/73 - 11/26/85

Time Resolution:

Bit Rate dependent (4096 - 8 BPS)

Spatial Resolution:

Solar System - Beyond

1BM 6250 BPI 9TR reel tapes

Media (e.g., 6250 bpi mag tape): 1BM 3480 cartridges

Number of volumes:

40 PHA Tapes, 48 RATE TAPES

Byte size estimate: PHA 1400 mega bytes, 1680 mega bytes (RATE)

Scientist:

Frank McDonald  
Donald Teegardin  
Sam Trumbo

Data contact person:

Kristin Wortman, Pam Schuster

Current data location:

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Primary keyword:

Solar/Space Physics

Secondary keywords:

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DATA CENSUS SURVEY - DATA SET ENTRY FORM

Data Set Common Name:

Data Set Identifier:

Spacecraft/Platform:

Instrument:

Experiment:

Time Span:

Time Resolution:

Spatial Resolution:

Media (e.g., 6250 bpi mag tape):

Number of volumes:

Byte size estimate:

Scientist:

Data contact person:

Current data location:

Primary keyword:

Secondary keyword:

Nelios B Flux database

6250 Flux

Nelios B

Cosmic Ray Experiment

EX 7

112126 - 318180

Bit Rate dependent

EARTH/34N ORBIT

16m

6

730 mega bytes

## **DATA CENSUS SURVEY - DATA SET ENTRY FORM**

**Data Set Common Name:** Helios A Flux Database

Helios A Flux Database

Helios A

# Cosmic Ray Experiment

EX 7

112476 - 318180

## Bit Rate dependent

## EARTH/SUN ORBIT

**Media (e.g., 6250 bpi mag tape):**

**Number of volumes:** 11

Byte size estimate: 1250 mega bytes

## **Scientist:**

**Data contact person:**

**Current data location:**

**Primary keyword:**

#### **Secondary keywords:**

DATA CENSUS SURVEY - DATA SET ENTRY FORM

Data Set Common Name:

IMP-6 FLUX

Data Set Identifier:

IMP-6 FLUX TAPES

Spacecraft/Platform:

IMP-6

Instrument:

COSMIC RAY EXPERIMENT

Experiment:

EX 11

Time Span:

3/13/76 - 10/12/74

Time Resolution:

1 sec over part 1, 2 mins.

Spatial Resolution:

EARTH ORBITING SATELLITE

Media (e.g., 6250 bpi mag tape): 16m 6250 bpi 9TR reel tapes

Number of volumes:

6

Byte size estimate:

154 megabytes

Scientist:

Bob McNamee

Data contact person:

L.S. Miller from Schneider

Current data location:

LSM's office

Primary keywords:

cosmic rays

Secondary keywords:

imp-6

DATA CENSUS SURVEY - DATA SET ENTRY FORM

Data Set Common Name: IMP-7(H)FLUX Meta Base

Data Set Identifier: IMP-14 Flux tapes

Spacecraft/Platform: IMP-14

Instrument: Cosmic Ray Exp.

Experiment: EX 32

Time Span: 9/25/72 - 10/1/78

Time Resolution: 5 mins

Spatial Resolution: Earth Orbiting Satellite

Media (e.g., 6250 bpi mag tape): 10M 6250 BPI 9TR reel tapes / IBM 3480 Cartridges

Number of volumes: 10

Byte size estimate: 370 mega bytes

Scientist: Bob McGuire

Data contact person: T. Snod / Pam Schuster

Current data location:

Primary keyword: Plas / Space Physics

Secondary keywords:

DATA CENSUS SURVEY - DATA SET ENTRY FORM

Data Set Common Name: IMP-7(H) FLEX Data base

Data Set Identifier: IMP-H Flex Tapes

Spacecraft/Platform: IMP-H

Instrument: Cosmic Ray Exp.

Experiment: EX32

Time Span: 9125192-101128

Time Resolution: 5 mins

Spatial Resolution: Earth orbiting satellite

Media (e.g., 6250 bpi mag tape): IBM 6250 BPI 97K reel tapes) IBM 3480 Cartridges

Number of volumes: 10

Byte size estimate: 270 mega bytes

Scientist: Bob McGuire

Data contact person: N Smith / Dan Schuster

Current data location:

Primary keyword: Solar / Space Physics

Secondary keywords:

# DATA CENSUS SURVEY - DATA SET ENTRY FORM

Data Set Common Name: IMP-8 FLEX Data Tapes

Data Set Identifier: IMP-8 Flex Tapes

Spacecraft/Platform: IMP-8

Instrument: EX52 Cosmic Ray Exp.

Experiment: Cosmic Ray Experiment EX52

Time Span: 10/13/73 - 11/14/89

Time Resolution: 5 mins.

Spatial Resolution: Earth Orbiting Satellite

Media (e.g., 6250 bpi mag tape): IBM 6250 BPI 9TR heel tapes

Number of volumes: 26

Byte size estimate: 620 mega bytes

Scientist: Bob McGuire

Data contact person: N. Smith / P. Shuster

Current data location:

Primary keyword: Solar/Space Physics

Secondary keywords:

## DATA CENSUS SURVEY - DATA SET ENTRY FORM

Data Set Common Name: IMP-8(3)FLUX Data base

Data Set Identifier: IMP J FLUX TAPEs

Spacecraft/Platform: IMP-J

Instrument: EX52 Cosmic Ray Exp

Experiment: Cosmic Ray Experiment EX52

Time Span: 10/30/73 - 11/4/89

Time Resolution: 5 mins

Spatial Resolution: Earth Orbiting Satellite

Media (e.g., 6250 bpi mag tape): 10M 6250 BPI 9TK reel tape, 10M 3480 cartridge

Number of volumes: 26

Byte size estimate: 620 mega bytes  
Bob McNamee

Data contact person: M. Smith, Paul Schuster

Current data location: Solar System Disk

Primary keyword:

Secondary keywords:

DATA CENSUS SURVEY - DATA SET ENTRY FORM

Data Set Common Name:

Pioneer 11 6250 Flux tape database

Data Set Identifier:

6250 FLUX

Spacecraft/Platform:

Pioneer 11

Instrument:

Cosmic Ray Experiment

Experiment:

GSFC/CRT

Time Span:

1973.11 - 1979.22

Time Resolution:

Bit Rate dependent (4096-8192)

Spatial Resolution:

Solar System

Media (e.g., 6250 bpi mag tape):

6250 bpi tape

Number of volumes:

2480 cartridges

Byte size estimate:

1700 megabytes

Scientist:

McDonald

Data contact person:

K. Wintner, Pam Schuster

Current data location:

University of Texas

Primary keyword:

cosmic rays

Secondary keywords:

space physics

COSMIC RAY SYSTEM LINECOUNTS:

ORIGINAL ESTIMATES:

- ALL STANDARD IMP PRODUCTION AND ANALYSIS PROGRAMS ARE INCLUDED
- SAME FOR ISEE; DATA POOL IS ABOUT 9000 LINES FORT. AND 1000 ASM.
- HELIOS IS ALL STANDARD PRODUCTION PLUS VARIOUS FIXUP SOURCES
- PIONEER WAS NOT COMPLETE, BUT LINES GIVEN INCLUDE STD PRODUCTION
- VOYAGER WAS NOT COMPLETE, BUT CAN BE RELIABLY ESTIMATED BY  
COMPARISON WITH ISEE
- SB#HP INCLUDES THINGS SUCH AS LIBMAN, VSCOPY OTHER MISC.

VOYAGER/ISEE FLUXPLOT AND MATRIX ARE UNDER ISEE

PIONEER/HELIOS FLUXPLOT AND MATRIX ARE UNDER PIONEER

LISLHS2\* FLUX CATALOG MANAGEMENT SOURCES IS UNDER SB#IC

SATELLITE	FORTRAN	ASSEMBLER	JCL	CLIST
IMP(6,7,8)	80,000	8800	16000(LARGE?) 6300(CNTL)	1200
ISEE (CR+DP)	27,000 *30,067	30,800 *29,212	6500 *6365	2700 *2890
HELIOS	25,000 *26,047	3000 *2782	6000 *6311	2700 *2688
PIONEER (UNDER- ESTIMATE)	20,700 *23,094	17,500 *13,387	6500 *8271	2000 *2298
VOYAGER (ESTIM- AFTER SB#IC)	11,000 *18,146	15,000 *11,773	5800 *7200	3600 *4241
SB#HP	6700	6100	1500	5400
(INCL SP.ANL.)	*20690	*6182	*1498	*5423
*****				
BASIC SUMS	190,000 *198,044	81,000 *72,136	26,000+IMP *29,645+IMP	17,600 *17,540

\*NNNN INDICATES REVISED COUNTS AS OF 12/91

- FORMER STANDARD ANALYSIS WAS PUT UNDER SB#HP
- FOURIER SEGMENTS ARE PUT UNDER EACH SATELLITE, PIONEER  
CONTAINS SATELLITE INDEPENDENT SEGMENT ALSO.

PAMS FMCD ANALYSIS CLISTS AND JCL -

NOT READY YET, BUT PROBABLY AT LEAST EQUAL TO CLIST SUMS ABOVE  
21 MAJOR DATASETS FULL OF CLIST(S)/SYSTEMS AND JCLS

JOHNS FMCD ANALYSIS CLISTS AND JCL - ?

SOME INCLUDED IN VOYAGER & PIONEER JCL SUMS

sb#hp project software, fall 1991 survey , IBM 3081 MVS system

program	fortran	assembler	jcl	clist
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main production/analysis programs:

archlist	23		24	
libman (cntl)			100	
libman (source)		1800	60	
xtape (all but IMP)	16	311	16	
catman (source missing: Nand has)				
movavg	881		23	
pioplot *	500			
getdata *	560			
fluxtnnn *	580			
pl3800 *	2700			
pl3810 *	4300			
hyst *	480			
modugrad *	3650			

main production jcl and clist libraries

lib_CNTL			645	
lib_CLIST				5423

program	fortran	assembler	jcl	clist
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specialized functions:

zbjhb.fort	1500			
lib.resp	4000		400	
misc.source	650	1400		
( general.maclib )		971		
xrajl.orbit.source	200		200	
helios.rateplot.source	650	1700	30	
Total linecounts:	20690	6182	1498	5423

\* source for these are located under xrpas as follows:

pioplot	xrpas.pc.source
getdata	xrpas.pc.source
fluxtnnn	xrpas.mcdi8001.data
pl3800	xrpas.temp.fort
pl3810	xrpas.temp.fort
hyst	xrpas.mcdhys01.data
modugrad	xrpas.mcdv1004.data

sb#vg project software, fall 1991 survey , IBM 3081 MVS system

program	fortran	assembler	jcl	clist
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log utilities:

altblk	73		12	39
asnenc	788		41	46
assign	834	185	47	47
edrlog	222	86	49	39
redolib	207		16	
(rmvcit)	391		57	
rmvedr	214		22	
rmvenc	859		39	
rmvwrk	155		22	
intlog	99	253	30	72
loglist	2078	139	100	
logexpnd	124			46

program	fortran	assembler	jcl	clist
---------	---------	-----------	-----	-------

main production programs:

editscan	1078		119	
editedrs	35		16	
coryr	34		23	
edrsave	2089	86	11	
encgen	1317	7875	99	12
encmrg		2290		
encit	1073	773	71	11
edrlist	1678		46	
lselect	2546	152	185	

main production jcl and clist libraries

libcntl			5279	
libclist				3646

program	fortran	assembler	jcl	clist
---------	---------	-----------	-----	-------

main analysis programs:

fluxplot (voysee under sb#hp)				
matrix (voysee under sb#hp)				
pcpha	1000		50	
pcflux	1300		100	
selpcpha				

specialized functions:

lisths2 (under sb#ic)				
status.source				
general.source	1347	1758	38	
srdlst	803		669	
toebcd (see enowlt)				
enowlt (see libcntl)	102		97	
pntenc				

	fortran	assembler	jcl	clist
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Total linecounts:

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What are these? :

program	fortran	assembler	jcl	clist
nwency				
genrat.source				
cmpenc.source				
pltrat.source				
voycal77.source				

sb#hl project software, fall 1991 survey , IBM 3081 MVS system

program	fortran	assembler	jcl	clist
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log type utilities:

dirfix (same as pioneer)				
drsmnt	531		30	
flxmnt	1000		60	
verify (kristin's)	350		100	
scanlib	600		40	
zerolog				

program	fortran	assembler	jcl	clist
---------	---------	-----------	-----	-------

main production programs:

plibgen	2300	500	40	
heldrp	10000	2200	300	
hflxdbg	1600	82	75	
edrlist	600		140	
flxlst	446		50	

main production jcl and clist libraries

lib.cntl			3626	
lib.clist				2688

program	fortran	assembler	jcl	clist
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main analysis programs:

fluxplot (piohel under pioneer)				
matrix (piohel under pioneer)				
pcpha (ask kristin)				
pcflux (ask kristin)				
multisat (helios sat. dep.)	700			
hartpl	3400		500	
hsxrnm	900		400	
ratelist (under sb#hl) (is this same as sb#hp?)				
xrajl.orbit.source (under sb#hp)				

specialized functions:

lisths2 (under ISEE)				
tapsqz	520		50	
tratcln	900		400	
tapedmps	2200		500	
qbofix	345		53	

Total linecounts:	fortran	assembler	jcl	clist
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Total linecounts:	26392	2782	6364	2688
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sb#ic project software, fall 1991 survey , IBM 3081 MVS system

program	fortran	assembler	jcl	cplist
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log utilities:

altblk (same as voyager)				
asnenc	394		150	57
edrlog	200	81	19	33
redolib	208		40	30
rmvenc	422		40	30
tls	500			
intlog	76	120	15	
loglist	1900		60	
logexpnd (same as voyager)				

program	fortran	assembler	jcl	cplist
---------	---------	-----------	-----	--------

main production programs:

edrsave	1000	69	27	
encgen	800	9000	99	12
encmrg		2700		
liblist(=edrlist)	1150		100	
encylist (lselect fnct)	300	1300	300	

main production jcl and cplist libraries

lib.cntl			3200	
lib.clist	-			2700

program	fortran	assembler	jcl	cplist
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main analysis programs:

fluxplot (voysee under sb#hp)	2100	11300	130	
matrix (voysee under sb#hp)	386	3542	115	
pcpha	1000		50	
pcfux	1300		100	
multisat (isee sat. dep.)	2040			

specialized functions:

lisths2	7500		1500	
setatt	260		150	28
reblock				

(accelerator software?)

Total linecounts:	fortran 21467	assembler 28112	jcl 6095	cplist 2890
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Data Pool System

program	fortran	assembler	jcl	cplist
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dprintlog				
dptsav (source missing)				
dpgen	6200	1100	110	
dpselect	1700		100	

dptlist		700	60		
dptsum	(obsolete)				
wrtlst	(obsolete)				
Total linecounts:		fortran 8600	assembler 1100	jcl 270	clist

sb#pr project software, fall 1991 survey, IBM 3081 system

Data Sets	Clist	Lines of code		4-tran	Asmbl
		Text	JCL		
<b>log type utilities:</b>					
SB#PR.DIRFIX.SOURCE				46	
SB#HL.FLXMNT.SOURCE	(under helios)				
SB#PR.DRSMNT.SOURCE		399	28	614	
SB#PR.LOGIST.SOURCE				729	
<b>main production programs:</b>					
SB#PR.PIODRP.SOURCE		499	65	5,563	889
SB#PR.FLXDBG.SOURCE		341	101	3,323	879
SB#PR.FLXLST.SOURCE		10	46	464	
SB#HL.EDRLIST.SOURCE	(under helios)				
<b>main production jcl and clist libraries:</b>					
SB#PR.LIB.CLIST		1,977	7		
SB#PR.LIB.CNTL		64	137	5,620	636
Data Sets	Clist	Text	JCL	4-tran	Asmbl
<b>main analysis programs:</b>					
SB#PR.PIOHEL.FLUX.SOURCE	(pio+helios)		53	1,063	8,077
matrix	(source w Nand ) (pio+helios) est.		115	386	3,542
SB#HP.MOVAVG.FORT	(under sb#hp)				
SB#PR.MULTISAT.FOURIER.SOURCE		374	448	3,243	
(sat.indep. & pio only)					
(all sats. dep. sources are also here)					
SB#PR.MAGDBG.FORT			71	2,363	
SB#PR.RATELIST.SOURCE		25	415	3,065	
Data Sets	Clist	Text	JCL	4-tran	Asmbl
<b>specialized data analysis &amp; functions:</b>					
straject.fort					
tapsqz.source					
SB#PR.FT303132.SOURCE			164	1,156	
XR2VP.FT303132.SOURCE			877	443	
SB#PR.FLUXPLOT.CNTL			253		
SB#PR.FLUXPLOT.DATA		3,233	8		
SB#PR.PLOT.DATA	257	4,944			
SB#PR.PLOT2.DATA		9,666			
SB#PR.PLOT3.DATA		5,387			
TOTALS	Clist	Text	JCL	4-tran	Asmbl
	2,298	-	8271	23094	13387

obsolete:

SB#PR.PATCH.FORT  
SB#PR.PFRSUM.SOURCE

8 204  
2,665 761

What are these?

pfrdsp.source  
plasma.source  
plasplt.source  
prdisp.source

SB#HP PROJECT SOURCE DATASETS:

TAPE JHB001 SB#HP.A.XRAJL.DOCUMENT.TEXT.V0189307  
TAPE JHB001 SB#HP.A.ZBPAS.ROADMAP.TEXT.V0183271  
TAPE MIGRAT SB#HP.ARCHLIST.FORT  
TAPE MIGRAT SB#HP.ARCHLIST.LOAD  
DASD MIGRAT SB#HP.BACKUP.DATA  
TAPE MIGRAT SB#HP.CRDB.PANELS  
TAPE MIGRAT SB#HP.GENERAL.MACLIB  
DASD MIGRAT SB#HP.GENERAL.SOURCE  
TAPE MIGRAT SB#HP.HELIOS.RATEPLOT.SOURCE  
DASD USER33 SB#HP.HELP.TEXT  
DASD USER24 SB#HP.LIB.CLIST  
DASD USER27 SB#HP.LIB.CNTL  
TAPE MIGRAT SB#HP.LIB.RESP  
DASD USER27 SB#HP.LIBMAN.CNTL  
TAPE MIGRAT SB#HP.LIBMAN.SOURCE  
TAPE MIGRAT SB#HP.MISC.SOURCE  
TAPE MIGRAT SB#HP.MOVAVG.FORT  
TAPE MIGRAT SB#HP.NBI.TEXT  
TAPE MIGRAT SB#HP.PIOHEL.FLUX.SOURCE  
TAPE MIGRAT SB#HP.PROCLIB  
TAPE MIGRAT SB#HP.SETDCB.ASM  
DASD USER12 SB#HP.TAPECOPY.CLIST  
TAPE MIGRAT SB#HP.VOYSEE.FLUX.SOURCE  
TAPE MIGRAT SB#HP.VOYSEE.MATRIX.SOURCE  
TAPE MIGRAT SB#HP.XRAJL.ORBIT.SOURCE  
TAPE MIGRAT SB#HP.XRAJL.TASK15.SOURCE  
TAPE MIGRAT SB#HP.XRAJL.TASK16.SOURCE  
TAPE MIGRAT SB#HP.XTAPE.SOURCE  
TAPE MIGRAT SB#HP.ZBJHB.FORT

*pioneer matrix*

SB#IM PROJECT SOURCE DATASETS:

TAPE MIGRAT SB#IM.ANALIMP6.SOURCE  
TAPE MIGRAT SB#IM.ANALIMP7.SOURCE  
TAPE MIGRAT SB#IM.ANALIMP8.SOURCE  
TAPE MIGRAT SB#IM.ANLIMP7F.SOURCE  
TAPE MIGRAT SB#IM.ANLIMP8F.SOURCE  
TAPE MIGRAT SB#IM.CNTSMRY7.SOURCE  
TAPE MIGRAT SB#IM.CNTSMRY8.SOURCE  
TAPE MIGRAT SB#IM.COMJOB8  
TAPE MIGRAT SB#IM.COMPRESS.SOURCE  
TAPE MIGRAT SB#IM.COMUTL.SOURCE  
TAPE MIGRAT SB#IM.CORRCAT6  
TAPE MIGRAT SB#IM.CORRCAT7  
TAPE MIGRAT SB#IM.CORRCAT8  
TAPE MIGRAT SB#IM.COR7B130  
DASD MIGRAT SB#IM.COR8B130  
TAPE MIGRAT SB#IM.DBG7.SOURCE  
TAPE MIGRAT SB#IM.DBG8.SOURCE  
TAPE MIGRAT SB#IM.DBTIME.SOURCE  
TAPE MIGRAT SB#IM.DEX11CAT.DATA  
TAPE MIGRAT SB#IM.DEX32CAT.DATA  
DASD MIGRAT SB#IM.DEX52CAT.DATA  
TAPE MIGRAT SB#IM.FINEGAIN.CNTL  
TAPE MIGRAT SB#IM.FINEGAIN.DATA  
TAPE MIGRAT SB#IM.FLXPLOT.NEWSOURC  
TAPE MIGRAT SB#IM.FLXPLOT.SOURCE  
TAPE MIGRAT SB#IM.HGPLT6.SOURCE  
TAPE MIGRAT SB#IM.HGPLT8.SOURCE  
TAPE MIGRAT SB#IM.IMPLOT2.SOURCE

TAPE MIGRAT SB#IM.IMP6DPS.SOURCE  
TAPE MIGRAT SB#IM.IMP6GAIN.DATA  
TAPE MIGRAT SB#IM.IMP7.FLEXCAT  
TAPE MIGRAT SB#IM.IMP7DPS.SOURCE  
TAPE MIGRAT SB#IM.IMP7GAIN.DATA  
DASD MIGRAT SB#IM.IMP8.FLEXCAT  
TAPE MIGRAT SB#IM.IMP8.INTFLEX.LOG  
TAPE MIGRAT SB#IM.IMP8.INTFLUX.LOG  
TAPE MIGRAT SB#IM.IMP8DPS.SOURCE  
DASD USER13 SB#IM.IMP8GAIN.DATA  
TAPE MIGRAT SB#IM.INTFLUX.NEWSOURC  
TAPE MIGRAT SB#IM.INTFLUX.SOURCE  
TAPE MIGRAT SB#IM.ISPTABL.TABLE  
TAPE MIGRAT SB#IM.I8FLXPLT.TEXT  
TAPE MIGRAT SB#IM.I8VLTTLST.SOURCE  
TAPE MIGRAT SB#IM.I8VLTPLT.SOURCE  
TAPE MIGRAT SB#IM.LGPLT8.SOURCE  
DASD CRAY07 SB#IM.LIB.CLIST  
DASD MIGRAT SB#IM.LIB.CNTL  
TAPE MIGRAT SB#IM.NEWCORR8  
TAPE MIGRAT SB#IM.PHASUM7.SOURCE  
TAPE MIGRAT SB#IM.PHASUM8.SOURCE  
TAPE MIGRAT SB#IM.PRECOM.SOURCE  
TAPE MIGRAT SB#IM.PROD.COR8B130  
TAPE MIGRAT SB#IM.PSEUDO.CNTL  
TAPE MIGRAT SB#IM.READCT.FORT  
DASD MIGRAT SB#IM.SORT.COR8B130  
TAPE MIGRAT SB#IM.SPECFIT.TEXT  
TAPE MIGRAT SB#IM.TAPEDMPS.SOURCE  
TAPE MIGRAT SB#IM.TIMSUM7.SOURCE  
TAPE MIGRAT SB#IM.TIMSUM8.SOURCE  
TAPE MIGRAT SB#IM.UTILITY.SOURCE  
TAPE MIGRAT SB#IM.VLTSMRY8.SOURCE  
TAPE MIGRAT SB#IM.VS.ANALIMP6.SOURCE  
TAPE MIGRAT SB#IM.VS.ANALIMP8.LOAD  
TAPE MIGRAT SB#IM.VS.ANALIMP8.SOURCE  
TAPE MIGRAT SB#IM.VS.CNTSMRY7.SOURCE  
TAPE MIGRAT SB#IM.VS.CNTSMRY8.LOAD  
TAPE MIGRAT SB#IM.VS.CNTSMRY8.SOURCE  
TAPE MIGRAT SB#IM.VS.DBG7.SOURCE  
TAPE MIGRAT SB#IM.VS.DBG8.LOAD  
TAPE MIGRAT SB#IM.VS.DBG8.SOURCE  
TAPE MIGRAT SB#IM.VS.FOURIMP7.LOAD  
TAPE MIGRAT SB#IM.VS.FOURIMP8.LOAD  
TAPE MIGRAT SB#IM.VS.HGPLT8.LOAD  
TAPE MIGRAT SB#IM.VS.IMP6DPS.SOURCE  
TAPE MIGRAT SB#IM.VS.IMP7DPS.SOURCE  
TAPE MIGRAT SB#IM.VS.IMP8DPS.LOAD  
TAPE MIGRAT SB#IM.VS.IMP8DPS.SOURCE  
TAPE MIGRAT SB#IM.VS.INTFLUX.SOURCE  
TAPE MIGRAT SB#IM.VS.LIB.CNTL  
TAPE MIGRAT SB#IM.VS.PHASUM7.SOURCE  
TAPE MIGRAT SB#IM.VS.PHASUM8.LOAD  
TAPE MIGRAT SB#IM.VS.PHASUM8.SOURCE  
TAPE MIGRAT SB#IM.VS.READCT.FORT  
TAPE MIGRAT SB#IM.VS.UTILITY.LOAD  
TAPE MIGRAT SB#IM.VS.UTILITY.SOURCE  
TAPE MIGRAT SB#IM.VS.VLTSMRY8.LOAD  
TAPE MIGRAT SB#IM.VS.VLTSMRY8.SOURCE  
TAPE MIGRAT SB#IM.WORKTB.IMP7CNTS  
TAPE MIGRAT SB#IM.WORKTB.IMP7PHAS  
TAPE MIGRAT SB#IM.XA.CNTSMRY8.LOAD

TAPE MIGRAT SB#IM.XA.DBG8.LOAD  
TAPE MIGRAT SB#IM.XA.IMP8DPS.LOAD  
TAPE MIGRAT SB#IM.XA.LIB.CLIST  
TAPE MIGRAT SB#IM.XA.LIB.CNTL  
TAPE MIGRAT SB#IM.XA.PHASUM8.LOAD  
TAPE MIGRAT SB#IM.XA.VLTSMRY8.LOAD  
TAPE IMPB01 SB#IM.Z.ANSTRPY6.SOURCE.V0183049  
TAPE IMPB01 SB#IM.Z.ANSTRPY7.SOURCE.V0183035  
TAPE IMPB01 SB#IM.Z.ANSTRPY8.SOURCE.V0183035  
TAPE IMPB01 SB#IM.Z.CNTSMRY6.SOURCE.V0183035  
TAPE IMPB01 SB#IM.Z.CPYTAPE8.SOURCE.V0183049  
TAPE IMPB01 SB#IM.Z.DBG6.SOURCE.V0183039  
TAPE IMPB01 SB#IM.Z.DFANLIMP.SOURCE.V0183049  
TAPE IMPB01 SB#IM.Z.DSPLY28.SOURCE.V0183049  
TAPE IMPB01 SB#IM.Z.ELFLUX.SOURCE.V0183035  
TAPE IMPB01 SB#IM.Z.EX10.SOURCE.V0183049  
TAPE IMPB01 SB#IM.Z.EX28.CNTL.V0183049  
TAPE IMPB01 SB#IM.Z.EX28.SOURCE.V0183049  
TAPE IMPB01 SB#IM.Z.FITTING.SOURCE.V0183035  
TAPE IMPB01 SB#IM.Z.FLXPLOTC.SOURCE.V0183039  
TAPE IMPB01 SB#IM.Z.HGPLT7.SOURCE.V0183039  
TAPE IMPB01 SB#IM.Z.IMPFLUX.PDPFIT.V0183049  
TAPE IMPB02 SB#IM.Z.I8PFLUX.SOURCE.V0384096  
TAPE IMPB01 SB#IM.Z.LGPLT6.SOURCE.V0183039  
TAPE IMPB02 SB#IM.Z.LGPLT7.SOURCE.V0284110  
TAPE IMPB01 SB#IM.Z.LST32.SOURCE.V0183039  
TAPE IMPB01 SB#IM.Z.MTSUM6.SOURCE.V0183039  
TAPE IMPB01 SB#IM.Z.ORBMRG6.SOURCE.V0183049  
TAPE IMPB01 SB#IM.Z.PHASUM6.SOURCE.V0283129  
TAPE IMPB01 SB#IM.Z.RFLUX8.SOURCE.V0183049  
TAPE IMPB01 SB#IM.Z.TRPLOT.SOURCE.V0183049

SB#IC PROJECT SOURCE DATASETS:

TAPE HGDO30 SB#IC.A.DPINTLOG.SOURCE.V0182006  
TAPE HGDO30 SB#IC.A.REDOLIB.SOURCE.V0182050  
TAPE HGDO30 SB#IC.A.SPICE.ASM.V0184017  
TAPE HGDO30 SB#IC.A.SPICE.FORT.V0184017  
TAPE HGDO30 SB#IC.A.WRTLST.SORT.V0182088  
TAPE HGDO32 SB#IC.B.ISEE84.SOURCE.V0184363  
TAPE HGDO32 SB#IC.B.REBLOCK.FORT.V0186364  
TAPE MIGRAT SB#IC.ASNENC.SOURCE  
TAPE MIGRAT SB#IC.DPTEXT.SOURCE  
TAPE MIGRAT SB#IC.EDRLOG.SOURCE  
TAPE MIGRAT SB#IC.EDRSAVE.SOURCE  
TAPE MIGRAT SB#IC.ENCGEN.ASM  
TAPE MIGRAT SB#IC.ENCMRG.SOURCE  
TAPE MIGRAT SB#IC.ENCYLIST.SOURCE  
TAPE MIGRAT SB#IC.ISPTABL.TABLE  
DASD USER06 SB#IC.LIB.CLIST  
DASD USER30 SB#IC.LIB.CNTL  
DASD MIGRAT SB#IC.LIBLIST.SOURCE  
DASD MIGRAT SB#IC.LISTHS2.SOURCE  
TAPE MIGRAT SB#IC.LOGLIST.SOURCE  
TAPE MIGRAT SB#IC.PCFLUX.SOURCE  
TAPE MIGRAT SB#IC.PCPHA.FORT  
TAPE MIGRAT SB#IC.REDOLIB.SOURCE  
TAPE MIGRAT SB#IC.RMVENC.SOURCE  
TAPE MIGRAT SB#IC.SETATT.SOURCE  
TAPE MIGRAT SB#IC.TLS.SOURCE  
DASD USER02 SB#IC.USERGIDE.TEXT  
TAPE MIGRAT SB#IC.XA.LIB.CLIST

SB#HL PROJECT SOURCE DATASETS:

TAPE MIGRAT	SB#HL.DRSMNT.SOURCE
DASD MIGRAT	SB#HL.EDRLIST.SOURCE
TAPE MIGRAT	SB#HL.FLXLST.SOURCE
TAPE MIGRAT	SB#HL.FLXMNT.SOURCE
TAPE MIGRAT	SB#HL.HARTPL.SOURCE
DASD USER04	SB#HL.HELDRP.SOURCE
DASD USER04	SB#HL.HFLXDBG.SOURCE
DASD USER04	SB#HL.HSXRMN.SOURCE
TAPE MIGRAT	SB#HL.ISPTABL.TABLE
TAPE MIGRAT	SB#HL.LIB.CLIST
DASD USER29	SB#HL.LIB.CNTL
TAPE MIGRAT	SB#HL.PLIBGEN.SOURCE
TAPE MIGRAT	SB#HL.QBOFIX.SOURCE
DASD USER19	SB#HL.RATELIST.SOURCE
DASD USER19	SB#HL.SCANLIB.SOURCE
DASD USER19	SB#HL.TAPEDMPS.SOURCE
DASD USER19	SB#HL.TAPSQZ.SOURCE
DASD USER19	SB#HL.TRATCLN.SOURCE
TAPE MIGRAT	SB#HL.VERIFY.FORT
TAPE HLIBM1	SB#HL.Z.CLOCKA.CNTL.V0183007
TAPE HLIBM1	SB#HL.Z.CLOCKB.CNTL.V0183007
TAPE HLIBM1	SB#HL.Z.ZBRTC.OPLOTMOD.V0183007
TAPE HLIBM1	SB#HL.Z.ZEROLOG.SOURCE.V0183010

SB#PR PROJECT SOURCE DATASETS:

TAPE MIGRAT	SB#PR.DIRFIX.SOURCE
TAPE MIGRAT	SB#PR.DRSMNT.SOURCE
TAPE MIGRAT	SB#PR.FLXDBG.SOURCE
TAPE MIGRAT	SB#PR.FLXLST.SOURCE
TAPE MIGRAT	SB#PR.FT303132.SOURCE
TAPE MIGRAT	SB#PR.ISPTABL.TABLE
DASD USER02	SB#PR.LIB.CLIST
DASD USER17	SB#PR.LIB.CNTL
TAPE MIGRAT	SB#PR.LIB.DATA
TAPE MIGRAT	SB#PR.LOGIST.SOURCE
TAPE MIGRAT	SB#PR.MAGDBG.FORT
TAPE MIGRAT	SB#PR.MULTISAT.FOURIER.SOURCE
TAPE MIGRAT	SB#PR.PATCH.FORT
TAPE MIGRAT	SB#PR.PFRSUM.SOURCE
TAPE MIGRAT	SB#PR.PIODRP.SOURCE
TAPE MIGRAT	SB#PR.RATELIST.SOURCE
TAPE MIGRAT	SB#PR.VS.MULTISAT.FOURIER.SOURCE
TAPE MIGRAT	SB#PR.VS.OASMG.FOURS1.LOAD
TAPE MIGRAT	SB#PR.VS.OASMG.PCOPTN.LOAD
TAPE MIGRAT	SB#PR.VS.PCOPTN.LOAD
TAPE MIGRAT	SB#PR.XA.FOURIER.LOAD
TAPE MIGRAT	SB#PR.XA.FOURS1.LOAD
TAPE PLIBM1	SB#PR.Z.PFRDSP.SOURCE.V0183027
TAPE PLIBM1	SB#PR.Z.PLASMA.SOURCE.V0185133
TAPE PLIBM1	SB#PR.Z.PLASPLT.SOURCE.V0283077
TAPE PLIBM1	SB#PR.Z.PRDISP.SOURCE.V0183027
TAPE PLIBM1	SB#PR.Z.RATELIST.SOURCE.V0183014
TAPE PLIBM1	SB#PR.Z.STRAJECT.FORT.V0183027
TAPE PLIBM1	SB#PR.Z.TAPSQZ.SOURCE.V0183014

SB#VG PROJECT SOURCE DATASETS:

TAPE MJS003	SB#VG.A.CMPENC.SOURCE.V0181038
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TAPE MJS003 SB#VG.A.GENRAT.SOURCE.V0181289  
TAPE MJS003 SB#VG.A.OWRKCIT.SOURCE.V0179250  
TAPE MJS003 SB#VG.A.PLTRAT.SOURCE.V0381015  
TAPE MJS004 SB#VG.A.SDRLST.SOURCE.V0182218  
TAPE MJS003 SB#VG.A.SEDR.SOURCE.V0281218  
TAPE MJS004 SB#VG.A.SEDRS.SOURCE.V0182071  
TAPE MJS003 SB#VG.A.SELECTE.SOURCE.V0280210  
TAPE MJS004 SB#VG.A.STATUS.SOURCE.V0182210  
TAPE MJS004 SB#VG.A.VDOC.TEXT.V0282348  
TAPE MJS003 SB#VG.A.VOYCAL77.SOURCE.V0181038  
TAPE MJS003 SB#VG.A.WRKCIT.SOURCE.V0179107  
TAPE MIGRAT SB#VG.ALtblk.SOURCE  
TAPE MIGRAT SB#VG.ASDF.CLIST  
TAPE MIGRAT SB#VG.ASNENC.SOURCE  
TAPE MIGRAT SB#VG.ASSIGN.SOURCE  
TAPE MJS007 SB#VG.B.ENCMRG.SOURCE.V0189187  
TAPE MJS007 SB#VG.B.SYSTEM.DOCUMENT.V0189095  
TAPE MIGRAT SB#VG.DSLOCATE.TEXT  
TAPE MIGRAT SB#VG.EDITSCAN.SOURCE  
TAPE MIGRAT SB#VG.EDRLIST.SOURCE  
TAPE MIGRAT SB#VG.EDRLOG.SOURCE  
TAPE MIGRAT SB#VG.EDRSAVE.SOURCE  
TAPE MIGRAT SB#VG.ENCGEN.SOURCE  
TAPE MIGRAT SB#VG.ENCIT.SOURCE  
TAPE MIGRAT SB#VG.GENERAL.SOURCE  
TAPE MIGRAT SB#VG.INTLOG.SOURCE  
TAPE MIGRAT SB#VG.ISPTABL.TABLE  
TAPE MIGRAT SB#VG.LB.CLIST  
TAPE MIGRAT SB#VG.LB.FORT  
TAPE MIGRAT SB#VG.LB.LOAD  
TAPE MIGRAT SB#VG.LB.MESSAGES  
TAPE MIGRAT SB#VG.LB.PANELS  
TAPE MIGRAT SB#VG.LB.PASCAL  
TAPE MIGRAT SB#VG.LB.TUINDEX  
TAPE MIGRAT SB#VG.LB.TUTORIAL  
TAPE MIGRAT SB#VG.LBR.CLIST  
TAPE MIGRAT SB#VG.LBR.CNTL  
DASD USER14 SB#VG.LIB.CLIST  
DASD USER20 SB#VG.LIB.CNTL  
TAPE MIGRAT SB#VG.LSELECT.SOURCE  
TAPE MIGRAT SB#VG.NWENCY.FORT  
TAPE MIGRAT SB#VG.PCFLUX.SOURCE  
TAPE MIGRAT SB#VG.PCPHA.FORT  
TAPE MIGRAT SB#VG.PNTENC.SOURCE  
TAPE MIGRAT SB#VG.REDOLIB.SOURCE  
TAPE MIGRAT SB#VG.RMVEDR.SOURCE  
TAPE MIGRAT SB#VG.RMVENC.SOURCE  
TAPE MIGRAT SB#VG.RMVWRK.SOURCE  
DASD USER01 SB#VG.SC31.CNTL  
DASD USER01 SB#VG.SC32.CNTL  
TAPE MIGRAT SB#VG.SELPCPHA.SOURCE  
TAPE MIGRAT SB#VG.SYSTEM.DOCUMENT  
TAPE MIGRAT SB#VG.TRAJ.CNTL  
TAPE MIGRAT SB#VG.VDOC.TEXT

Voyager

LOGLIST.SOURCE

MATRIX FluxPLOT { SBHHP / SE2NL

SB#HP PROJECT DATASETS:

TAPE JHB001 SB#HP.A.XRAJL.DOCUMENT.TEXT.V0189307  
TAPE JHB001 SB#HP.A.ZBPAS.ROADMAP.TEXT.V0183271  
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TAPE MIGRAT SB#HP.ARCHLIST.LOAD  
DASD MIGRAT SB#HP.BACKUP.DATA  
TAPE MIGRAT SB#HP.CRDB.PANELS  
TAPE MIGRAT SB#HP.GENERAL.MACLIB  
DASD MIGRAT SB#HP.GENERAL.SOURCE  
TAPE MIGRAT SB#HP.HELIOS.RATEPLOT.SOURCE  
DASD USER33 SB#HP.HELP.TEXT  
DASD USER24 SB#HP.LIB.CLIST  
DASD USER27 SB#HP.LIB.CNTL  
DASD MIGRAT SB#HP.LIB.LOAD  
TAPE MIGRAT SB#HP.LIB.RESP  
DASD USER27 SB#HP.LIBMAN.CNTL  
DASD USER11 SB#HP.LIBMAN.LOAD  
TAPE MIGRAT SB#HP.LIBMAN.SOURCE  
TAPE MIGRAT SB#HP.LISTCAT.LOAD  
TAPE MIGRAT SB#HP.MISC.SOURCE  
TAPE MIGRAT SB#HP.MOVAVG.FORT  
TAPE MIGRAT SB#HP.NBI.TEXT  
TAPE MIGRAT SB#HP.PIOHEL.FLUX.SOURCE  
DASD MIGRAT SB#HP.PLOTO.LOAD  
TAPE MIGRAT SB#HP.PROCLIB  
TAPE MIGRAT SB#HP.RAMTEK.LOAD ?  
TAPE MIGRAT SB#HP.SETDCB.ASM  
DASD USER12 SB#HP.TAPECOPY.CLIST  
TAPE MIGRAT SB#HP.VOYSEE.FLUX.SOURCE  
TAPE MIGRAT SB#HP.VOYSEE.MATRIX.SOURCE  
TAPE MIGRAT SB#HP.XRAJL.ORBIT.SOURCE  
TAPE MIGRAT SB#HP.XRAJL.TASK15.SOURCE  
TAPE MIGRAT SB#HP.XRAJL.TASK16.SOURCE  
TAPE MIGRAT SB#HP.XTAPE.SOURCE  
TAPE MIGRAT SB#HP.ZBJHB.FORT

SB#IM PROJECT DATASETS:

DASD USER24 SB#IM.ADDTOLIB.LOAD  
TAPE MIGRAT SB#IM.ANALIMP6.SOURCE  
TAPE MIGRAT SB#IM.ANALIMP7.LOAD  
TAPE MIGRAT SB#IM.ANALIMP7.SOURCE  
TAPE MIGRAT SB#IM.ANALIMP8.LOAD  
TAPE MIGRAT SB#IM.ANALIMP8.SOURCE  
TAPE MIGRAT SB#IM.ANLIMP7F.LOAD  
TAPE MIGRAT SB#IM.ANLIMP7F.SOURCE  
TAPE MIGRAT SB#IM.ANLIMP8F.LOAD  
TAPE MIGRAT SB#IM.ANLIMP8F.SOURCE  
TAPE MIGRAT SB#IM.BACKUP.DEX52CAT.DATA  
TAPE MIGRAT SB#IM.CNTSMRY7.SOURCE  
DASD MIGRAT SB#IM.CNTSMRY8.LOAD  
TAPE MIGRAT SB#IM.CNTSMRY8.SOURCE  
TAPE MIGRAT SB#IM.COMCHK.LOAD  
TAPE MIGRAT SB#IM.COMJOB8  
TAPE MIGRAT SB#IM.COMPRESS.LOAD  
TAPE MIGRAT SB#IM.COMPRESS.SOURCE  
DASD MIGRAT SB#IM.COMUTL.LOAD  
TAPE MIGRAT SB#IM.COMUTL.SOURCE  
TAPE MIGRAT SB#IM.CORRCAT6  
TAPE MIGRAT SB#IM.CORRCAT7  
TAPE MIGRAT SB#IM.CORRCAT8

TAPE MIGRAT SB#IM.COR7B130  
DASD MIGRAT SB#IM.COR8B130  
TAPE MIGRAT SB#IM.DBG7.SOURCE  
DASD MIGRAT SB#IM.DBG8.LOAD  
TAPE MIGRAT SB#IM.DBG8.SOURCE  
TAPE MIGRAT SB#IM.DBTIME.BATCH  
TAPE MIGRAT SB#IM.DBTIME.CLIST  
TAPE MIGRAT SB#IM.DBTIME.LOAD  
TAPE MIGRAT SB#IM.DBTIME.MSGS  
TAPE MIGRAT SB#IM.DBTIME.PANELS  
TAPE MIGRAT SB#IM.DBTIME.SOURCE  
TAPE MIGRAT SB#IM.DEX11CAT.DATA  
TAPE MIGRAT SB#IM.DEX32CAT.DATA  
DASD MIGRAT SB#IM.DEX52CAT.DATA  
TAPE MIGRAT SB#IM.FINEGAIN.CNTL  
TAPE MIGRAT SB#IM.FINEGAIN.DATA  
TAPE MIGRAT SB#IM.FLEX7.LOAD  
TAPE MIGRAT SB#IM.FLEX8.LOAD  
TAPE MIGRAT SB#IM.FLUXPLOT.LOAD  
TAPE MIGRAT SB#IM.FLUX7.LOAD  
TAPE MIGRAT SB#IM.FLUX8.LOAD  
TAPE MIGRAT SB#IM.FLXPLOT.NEWSOURC  
TAPE MIGRAT SB#IM.FLXPLOT.SOURCE  
TAPE MIGRAT SB#IM.FOURIMP7.LOAD  
TAPE MIGRAT SB#IM.FOURIMP8.LOAD  
TAPE MIGRAT SB#IM.HENRY.DEX52CAT.DATA  
TAPE MIGRAT SB#IM.HGPLT6.SOURCE  
TAPE MIGRAT SB#IM.HGPLT8.LOAD  
TAPE MIGRAT SB#IM.HGPLT8.SOURCE  
TAPE MIGRAT SB#IM.HHL.DEX52CAT.DATA  
TAPE MIGRAT SB#IM.IMPLOT.LOAD  
TAPE MIGRAT SB#IM.IMPLOT2.SOURCE  
TAPE MIGRAT SB#IM.IMP6DPS.SOURCE  
TAPE MIGRAT SB#IM.IMP6GAIN.DATA  
TAPE MIGRAT SB#IM.IMP7.FLEXCAT  
TAPE MIGRAT SB#IM.IMP7DPS.SOURCE  
TAPE MIGRAT SB#IM.IMP7FORZ.LOAD  
TAPE MIGRAT SB#IM.IMP7FOUR.LOAD  
TAPE MIGRAT SB#IM.IMP7GAIN.DATA  
DASD MIGRAT SB#IM.IMP8.FLEXCAT  
TAPE MIGRAT SB#IM.IMP8.INTFLEX.LOG  
TAPE MIGRAT SB#IM.IMP8.INTFLUX.LOG  
DASD MIGRAT SB#IM.IMP8DPS.LOAD  
TAPE MIGRAT SB#IM.IMP8DPS.SOURCE  
TAPE MIGRAT SB#IM.IMP8FORZ.LOAD  
TAPE MIGRAT SB#IM.IMP8FOUR.LOAD  
DASD USER13 SB#IM.IMP8GAIN.DATA  
TAPE MIGRAT SB#IM.IMP8GAIN.GOODDATA  
TAPE MIGRAT SB#IM.INTFLUX.NEWSOURC  
TAPE MIGRAT SB#IM.INTFLUX.SOURCE  
TAPE MIGRAT SB#IM.ISPTABL.TABLE  
TAPE MIGRAT SB#IM.I8FLXPLT.TEXT  
TAPE MIGRAT SB#IM.I8VLTLS.TSOURCE  
TAPE MIGRAT SB#IM.I8VLTPLT.LOAD  
TAPE MIGRAT SB#IM.I8VLTPLT.SOURCE  
TAPE MIGRAT SB#IM.LGPLT8.LOAD  
TAPE MIGRAT SB#IM.LGPLT8.SOURCE  
DASD CRAY07 SB#IM.LIB.CLIST  
DASD MIGRAT SB#IM.LIB.CNTL  
TAPE MIGRAT SB#IM.NEW.FLUX8.LOAD  
TAPE MIGRAT SB#IM.NEWCORR8  
TAPE MIGRAT SB#IM.NOVS.FOURIMP8.LOAD

TAPE MIGRAT SB#IM.OIMPGLIB.LOAD  
TAPE MIGRAT SB#IM.OIMPILIB.LOAD  
TAPE MIGRAT SB#IM.OIMPLIB.LOAD  
TAPE MIGRAT SB#IM.OIMPMOD.LOAD  
TAPE MIGRAT SB#IM.OLD.CNTSMRY8.SOURCE  
TAPE MIGRAT SB#IM.OLD.DBG8.LOAD  
TAPE MIGRAT SB#IM.OLD.FLUX8.LOAD  
TAPE MIGRAT SB#IM.OLD.IMPLOT.LOAD  
TAPE MIGRAT SB#IM.OLD.PRECOM.LOAD  
TAPE MIGRAT SB#IM.OLD.TIMSM8.LOAD  
TAPE MIGRAT SB#IM.OLD1.TIMSM8.LOAD  
TAPE MIGRAT SB#IM.PFLUX8.LOAD  
TAPE MIGRAT SB#IM.PHASUM7.SOURCE  
DASD MIGRAT SB#IM.PHASUM8.LOAD  
TAPE MIGRAT SB#IM.PHASUM8.SOURCE  
TAPE MIGRAT SB#IM.PRECOM.LOAD  
TAPE MIGRAT SB#IM.PRECOM.SOURCE  
TAPE MIGRAT SB#IM.PROD.COR8B130  
TAPE MIGRAT SB#IM.PSEUDO.CNTL  
TAPE MIGRAT SB#IM.READCT.FORT  
DASD MIGRAT SB#IM.SORT.COR8B130  
TAPE MIGRAT SB#IM.SPECFIT.TEXT  
TAPE MIGRAT SB#IM.SUMTAB.IMP8CNTS  
TAPE MIGRAT SB#IM.SUMTAB.IMP8PHAS  
TAPE MIGRAT SB#IM.TAPEDMPS.SOURCE  
TAPE MIGRAT SB#IM.TEST.DEX52CAT.DATA  
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TAPE MIGRAT SB#IM.TIMSM8.LOAD  
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TAPE MIGRAT SB#IM.TIMSUM8.SOURCE  
DASD MIGRAT SB#IM.UTILITY.LOAD  
TAPE MIGRAT SB#IM.UTILITY.SOURCE  
DASD USER09 SB#IM.VLTSMRY8.LOAD  
TAPE MIGRAT SB#IM.VLTSMRY8.SOURCE  
TAPE MIGRAT SB#IM.VS.ANALIMP6.SOURCE  
TAPE MIGRAT SB#IM.VS.ANALIMP8.LOAD  
TAPE MIGRAT SB#IM.VS.ANALIMP8.SOURCE  
TAPE MIGRAT SB#IM.VS.CNTSMRY7.SOURCE  
TAPE MIGRAT SB#IM.VS.CNTSMRY8.LOAD  
TAPE MIGRAT SB#IM.VS.CNTSMRY8.SOURCE  
TAPE MIGRAT SB#IM.VS.DBG7.SOURCE  
TAPE MIGRAT SB#IM.VS.DBG8.LOAD  
TAPE MIGRAT SB#IM.VS.DBG8.SOURCE  
TAPE MIGRAT SB#IM.VS.FOURIMP7.LOAD  
TAPE MIGRAT SB#IM.VS.FOURIMP8.LOAD  
TAPE MIGRAT SB#IM.VS.HGPLT8.LOAD  
TAPE MIGRAT SB#IM.VS.IMP6DPS.SOURCE  
TAPE MIGRAT SB#IM.VS.IMP7DPS.SOURCE  
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TAPE MIGRAT SB#IM.VS.IMP8DPS.SOURCE  
TAPE MIGRAT SB#IM.VS.INTFLUX.SOURCE  
TAPE MIGRAT SB#IM.VS.LIB.CNTL  
TAPE MIGRAT SB#IM.VS.PHASUM7.SOURCE  
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TAPE MIGRAT SB#IM.VS.READCT.FORT  
TAPE MIGRAT SB#IM.VS.UTILITY.LOAD  
TAPE MIGRAT SB#IM.VS.UTILITY.SOURCE  
TAPE MIGRAT SB#IM.VS.VLTSMRY8.LOAD  
TAPE MIGRAT SB#IM.VS.VLTSMRY8.SOURCE  
TAPE MIGRAT SB#IM.WORKTB.IMP7CNTS

TAPE MIGRAT SB#IM.WORKTB.IMP7PHAS  
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TAPE MIGRAT SB#IM.XA.LIB.CNTL  
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TAPE MIGRAT SB#IM.XA.VLTSMRY8.LOAD  
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TAPE IMPB01 SB#IM.Z.ADDTOLIB.LOAD.V0282161  
TAPE IMPB01 SB#IM.Z.ADDTOLIB.LOAD.V0383006  
TAPE IMPB02 SB#IM.Z.ADDTOLIB.LOAD.V0490362  
TAPE IMPB01 SB#IM.Z.ANALIMP6.LOAD.V0182132  
TAPE IMPB01 SB#IM.Z.ANALIMP6.LOAD.V0282364  
TAPE IMPB01 SB#IM.Z.ANALIMP6.LOAD.V0383140  
TAPE IMPB01 SB#IM.Z.ANALIMP6.LOAD.V0484047  
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TAPE IMPB01 SB#IM.Z.ANALIMP8.LOAD.V0282362  
TAPE IMPB01 SB#IM.Z.ANALIMP8.LOAD.V0384047  
TAPE IMPB02 SB#IM.Z.ANALIMP8.LOAD.V0484096  
TAPE IMPB02 SB#IM.Z.ANALIMP8.LOAD.V0585162  
TAPE IMPB02 SB#IM.Z.ANALIMP8.LOAD.V0687203  
TAPE IMPB02 SB#IM.Z.ANALIMP8.LOAD.V0788341  
TAPE IMPB02 SB#IM.Z.ANALIMP8.LOAD.V0890299  
TAPE IMPB01 SB#IM.Z.ANALIMP8.SOURCE.V0183035  
TAPE IMPB02 SB#IM.Z.ANALIMP8.SOURCE.V0284096  
TAPE IMPB02 SB#IM.Z.ANALIMP8.SOURCE.V0388341  
TAPE IMPB02 SB#IM.Z.ANALIMP8.SOURCE.V0489158  
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TAPE IMPB01 SB#IM.Z.ANLIMP7F.LOAD.V0283069  
TAPE IMPB01 SB#IM.Z.ANLIMP7F.LOAD.V0384048  
TAPE IMPB02 SB#IM.Z.ANLIMP7F.LOAD.V0487203  
TAPE IMPB02 SB#IM.Z.ANLIMP7F.LOAD.V0588061  
TAPE IMPB01 SB#IM.Z.ANLIMP7F.SOURCE.V0183049  
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TAPE IMPB01 SB#IM.Z.ANSTRPY6.LOAD.V0384052  
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TAPE IMPB01 SB#IM.Z.ANSTRPY8.LOAD.V0384052  
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TAPE IMPB01 SB#IM.Z.CNTSMRY6.LOAD.V0182132  
TAPE IMPB01 SB#IM.Z.CNTSMRY6.LOAD.V0282364  
TAPE IMPB01 SB#IM.Z.CNTSMRY6.LOAD.V0383014  
TAPE IMPB01 SB#IM.Z.CNTSMRY6.LOAD.V0484052  
TAPE IMPB01 SB#IM.Z.CNTSMRY6.SOURCE.V0183035  
TAPE IMPB01 SB#IM.Z.CNTSMRY7.LOAD.V0182132  
TAPE IMPB01 SB#IM.Z.CNTSMRY7.LOAD.V0282253  
TAPE IMPB01 SB#IM.Z.CNTSMRY7.LOAD.V0382266  
TAPE IMPB01 SB#IM.Z.CNTSMRY7.LOAD.V0482364  
TAPE IMPB01 SB#IM.Z.CNTSMRY7.LOAD.V0583011  
TAPE IMPB01 SB#IM.Z.CNTSMRY7.LOAD.V0684048  
TAPE IMPB01 SB#IM.Z.CNTSMRY7.SOURCE.V0183035  
TAPE IMPB01 SB#IM.Z.CNTSMRY8.LOAD.V0182060  
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TAPE IMPB01 SB#IM.Z.CNTSMRY8.LOAD.V0684047  
TAPE IMPB02 SB#IM.Z.CNTSMRY8.LOAD.V0784110  
TAPE IMPB02 SB#IM.Z.CNTSMRY8.LOAD.V0885221  
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TAPE HGD030 SB#IC.A.DPGEN.SOURCE.V0184045  
TAPE HGD030 SB#IC.A.DPINTLOG.SOURCE.V0182006  
TAPE HGD030 SB#IC.A.DPLOG.DATA.V0181028  
TAPE HGD030 SB#IC.A.DPLOG.DATA.V0281175  
TAPE HGD030 SB#IC.A.DPLOG.DATA.V0381290  
TAPE HGD030 SB#IC.A.DPLOG.DATA.V0481302  
TAPE HGD030 SB#IC.A.DPLOG.DATA.V0582060  
TAPE HGD030 SB#IC.A.DPLOG.DATA.V0682088

TAPE HGD030 SB#IC.A.DPLOG.DATA.V0782116  
TAPE HGD030 SB#IC.A.DPLOG.DATA.V0882118  
TAPE HGD030 SB#IC.A.DPLOG.DATA.V0982162  
TAPE HGD030 SB#IC.A.DPLOG.DATA.V1083089  
TAPE HGD030 SB#IC.A.DPLOG.DATA.V1183089  
TAPE HGD030 SB#IC.A.DPSELECT.SOURCE.V0183230  
TAPE HGD030 SB#IC.A.DPTLIST.SOURCE.V0181076  
TAPE HGD030 SB#IC.A.DPTLIST.SOURCE.V0281076  
TAPE HGD030 SB#IC.A.DPTSAVE.LOAD.V0180296  
TAPE HGD030 SB#IC.A.DPTSUM.SOURCE.V0181098  
TAPE HGD030 SB#IC.A.DPTSUM.SOURCE.V0281098  
TAPE HGD030 SB#IC.A.DPTSUM.SOURCE.V0382133  
TAPE HGD030 SB#IC.A.EDRLOG.SOURCE.V0183143  
TAPE HGD030 SB#IC.A.EDRLOG.SOURCE.V0283210  
TAPE HGD030 SB#IC.A.EDRLOG.SOURCE.V0383271  
TAPE HGD030 SB#IC.A.EDRSAVE.LOAD.V0180296  
TAPE HGD030 SB#IC.A.ENCGEN.LOAD.V0180296  
TAPE HGD030 SB#IC.A.ENCGEN.LOAD.V0281015  
TAPE HGD030 SB#IC.A.ENCMRG.LOAD.V0180296  
TAPE HGD030 SB#IC.A.FOURICC.LOAD.V0180296  
TAPE HGD030 SB#IC.A.FOURICC.LOAD.V0281100  
TAPE HGD030 SB#IC.A.FOURICC.LOAD.V0381265  
TAPE HGD030 SB#IC.A.FOURICC.LOAD.V0481280  
TAPE HGD030 SB#IC.A.FOURICC.LOAD.V0581294  
TAPE HGD030 SB#IC.A.FOURICC.LOAD.V0681295  
TAPE HGD030 SB#IC.A.FOURICC.LOAD.V0781300  
TAPE HGD030 SB#IC.A.FOURICC.LOAD.V0882060  
TAPE HGD030 SB#IC.A.FOURICC.LOAD.V0983335  
TAPE HGD030 SB#IC.A.ISEE.DUMMY.V0182060  
TAPE HGD030 SB#IC.A.ISEECAL.TEXT.V0183097  
TAPE HGD030 SB#IC.A.ISEE3.JCL.V0182336  
TAPE HGD030 SB#IC.A.LIB.CLIST.V0180296  
TAPE HGD030 SB#IC.A.LIB.CLIST.V0282060  
TAPE HGD030 SB#IC.A.LIB.CLIST.V0384065  
TAPE HGD030 SB#IC.A.LIB.CLIST.V0484086  
TAPE HGD030 SB#IC.A.LIB.CLIST.V0584159  
TAPE HGD030 SB#IC.A.LIB.CLIST.V0684159  
TAPE HGD030 SB#IC.A.LIB.CNTL.V0180296  
TAPE HGD030 SB#IC.A.LIB.CNTL.V0281084  
TAPE HGD030 SB#IC.A.LIB.CNTL.V0382060  
TAPE HGD030 SB#IC.A.LIB.CNTL.V0483355  
TAPE HGD030 SB#IC.A.LIB.CNTL.V0583355  
TAPE HGD030 SB#IC.A.LIB.DATA.V0181121  
TAPE HGD030 SB#IC.A.LIB.DATA.V0282060  
TAPE HGD030 SB#IC.A.LIB.DATA.V0382085  
TAPE HGD030 SB#IC.A.LIB.LOAD.V0182060  
TAPE HGD030 SB#IC.A.LIB.LOAD.V0283017  
TAPE HGD030 SB#IC.A.LIB.LOAD.V0383048  
TAPE HGD030 SB#IC.A.LIB.LOAD.V0483143  
TAPE HGD030 SB#IC.A.LIB.LOAD.V0583273  
TAPE HGD030 SB#IC.A.LIB.LOAD.V0684053  
TAPE HGD030 SB#IC.A.LIB.LOAD.V0784054  
TAPE HGD030 SB#IC.A.LISTHS2.SOURCE.V0183208  
TAPE HGD030 SB#IC.A.LISTHS2.SOURCE.V0283286  
TAPE HGD030 SB#IC.A.LISTSTAT.LOAD.V0181016  
TAPE HGD030 SB#IC.A.LOG.DATA.V0181015  
TAPE HGD030 SB#IC.A.LOG.DATA.V0281016  
TAPE HGD030 SB#IC.A.LOG.DATA.V0381175  
TAPE HGD030 SB#IC.A.LOG.DATA.V0481302  
TAPE HGD030 SB#IC.A.LOG.DATA.V0582060  
TAPE HGD030 SB#IC.A.LOG.DATA.V0682116  
TAPE HGD030 SB#IC.A.LOG.DATA.V0782133

TAPE HGD030 SB#IC.A.LOG.DATA.V0882134  
TAPE HGD030 SB#IC.A.LOG.DATA.V0982161  
TAPE HGD030 SB#IC.A.LOG.DATA.V1082210  
TAPE HGD030 SB#IC.A.LOGBK.DATA.V0181019  
TAPE HGD030 SB#IC.A.LOGBK.DATA.V0281028  
TAPE HGD030 SB#IC.A.LOGBK.DATA.V0381029  
TAPE HGD030 SB#IC.A.LOGLIST.SOURCE.V0182054  
TAPE HGD030 SB#IC.A.LSELECT.LOAD.V0181290  
TAPE HGD030 SB#IC.A.MAGSUM.LOAD.V0181098  
TAPE HGD030 SB#IC.A.MAGSUM.LOAD.V0281098  
TAPE HGD030 SB#IC.A.MAGSUM.LOAD.V0381100  
TAPE HGD030 SB#IC.A.MAGSUM.LOAD.V0482088  
TAPE HGD030 SB#IC.A.MATRIX.LOAD.V0180296  
TAPE HGD030 SB#IC.A.MULTISAT.FOURIER.SOURCE.V0181294  
TAPE HGD030 SB#IC.A.MULTISAT.FOURIER.SOURCE.V0281295  
TAPE HGD030 SB#IC.A.MULTISAT.FOURIER.SOURCE.V0381296  
TAPE HGD030 SB#IC.A.MULTISAT.FOURIER.SOURCE.V0481300  
TAPE HGD030 SB#IC.A.NEWDPLG.DATA.V0182060  
TAPE HGD030 SB#IC.A.NEWISEE.LOAD.V0184066  
TAPE HGD030 SB#IC.A.PROCESS.LOAD.V0180296  
TAPE HGD030 SB#IC.A.PROCESS.LOAD.V0281008  
TAPE HGD030 SB#IC.A.REDOLIB.SOURCE.V0182050 *on disk*  
TAPE HGD030 SB#IC.A.RMVENC.SOURCE.V0182050  
TAPE HGD030 SB#IC.A.RMVENC.SOURCE.V0283210  
TAPE HGD030 SB#IC.A.RMVENC.SOURCE.V0383210  
TAPE HGD030 SB#IC.A.RMVENC.SOURCE.V0483273  
TAPE HGD030 SB#IC.A.SETATT.SOURCE.V0181017  
TAPE HGD030 SB#IC.A.SPICE.ASM.V0184017  
TAPE HGD030 SB#IC.A.SPICE.FORT.V0184017  
TAPE HGD030 SB#IC.A.SPICE.INPUT.DATA.V0184019  
TAPE HGD030 SB#IC.A.SPICE.LOAD.V0184019  
TAPE HGD030 SB#IC.A.SPICE.OUTPUT.DATA.V0184019  
TAPE HGD030 SB#IC.A.SPRING.LOAD.V0180296  
TAPE HGD030 SB#IC.A.TLS.SOURCE.V0183210  
TAPE HGD030 SB#IC.A.TLS.SOURCE.V0283273  
TAPE HGD030 SB#IC.A.TLS.SOURCE.V0384031  
TAPE HGD030 SB#IC.A.TYCHOREQ.CNTL.V0182130  
TAPE HGD030 SB#IC.A.USERGIDE.TEXT.V0181225  
TAPE HGD030 SB#IC.A.USERGIDE.TEXT.V0283103  
~~TAPE HGD030 SB#IC.A.WRTLST.SORT.V0182088~~  
TAPE HGD030 SB#IC.ALIBVOLS.V0000000  
TAPE HGD030 SB#IC.ALIBVOLS.V0180296  
DASS USER03 SB#IC.ALtblk.RECORD  
TAPE MIGRAT SB#IC.ASNENC.SOURCE  
TAPE HGD032 SB#IC.B.ASNENC.SOURCE.V0189240  
TAPE HGD032 SB#IC.B.ASNENC.SOURCE.V0289346  
TAPE HGD032 SB#IC.B.DPTEXT.CLIST.V0184363  
TAPE HGD032 SB#IC.B.DPTEXT.CLIST.V0287223  
TAPE HGD032 SB#IC.B.DPTEXT.CNTL.V0184363  
TAPE HGD032 SB#IC.B.DPTEXT.LOAD.V0184363  
TAPE HGD032 SB#IC.B.DPTEXT.LOAD.V0285052  
TAPE HGD032 SB#IC.B.DPTEXT.LOAD.V0385080  
TAPE HGD032 SB#IC.B.DPTEXT.PANELS.V0184363  
TAPE HGD032 SB#IC.B.DPTEXT.SOURCE.V0184363  
TAPE HGD032 SB#IC.B.DPTEXT.SOURCE.V0285052  
TAPE HGD032 SB#IC.B.DPTEXT.SOURCE.V0385080  
TAPE HGD032 SB#IC.B.ENCGEN.ASM.V0188341  
TAPE HGD032 SB#IC.B.ENCYLIST.SOURCE.V0189080  
TAPE HGD032 SB#IC.B.ISEE4.DATA.V0187139  
TAPE HGD032 SB#IC.B.ISEE6A.DATA.V0187139  
TAPE HGD032 SB#IC.B.ISEE84.LOAD.V0184363  
TAPE HGD032 SB#IC.B.ISEE84.SOURCE.V0184363 - ?

TAPE HGD032 SB#IC.B.ISFOURSI.LOAD.V0184363  
TAPE HGD032 SB#IC.B.ISPTABL.TABLE.V0186100  
TAPE HGD032 SB#IC.B.LIB.CLIST.V0186364  
TAPE HGD032 SB#IC.B.LIB.LOAD.V0188341  
TAPE HGD032 SB#IC.B.LIB.LOAD.V0289080  
TAPE HGD032 SB#IC.B.LIB.LOAD.V0389240  
TAPE HGD032 SB#IC.B.LIB.LOAD.V0489346  
TAPE HGD032 SB#IC.B.LISTHS2.SOURCE.V0185052  
TAPE HGD032 SB#IC.B.LISTHS2.SOURCE.V0285294  
TAPE HGD032 SB#IC.B.LISTHS2.SOURCE.V0388112  
TAPE HGD032 SB#IC.B.LISTHS2.SOURCE.V0488222  
TAPE HGD032 SB#IC.B.LOG.DATA.V0189240  
TAPE HGD032 SB#IC.B.REBLOCK.FORT.V0186364  
TAPE HGD032 SB#IC.B.REBLOCK.LOAD.V0186364  
TAPE HGD032 SB#IC.B.RMVENC.SOURCE.V0189240  
TAPE HGD032 SB#IC.B.RMVENC.SOURCE.V0289346  
TAPE HGD032 SB#IC.B.SETDCB.OBJ.V0184363  
TAPE HGD032 SB#IC.B.SETDCB.OBJ.V0288347  
TAPE HGD032 SB#IC.B.SYSTEM.DOCUMENT.V0189095  
TAPE HGD032 SB#IC.B.TLS.SOURCE.V0185325  
TAPE HGD032 SB#IC.B.XTAPE.LOAD.V0184363  
TAPE HGD032 SB#IC.BLIBVOLS.V0000000  
TAPE HGD032 SB#IC.BLIBVOLS.V0184363  
DASD MIGRAT SB#IC.CATALOG.DATA  
DASD USER16 SB#IC.DPLOG.DATA  
TAPE MIGRAT SB#IC.DPLOGBK.DATA  
TAPE MIGRAT SB#IC.DPTEXT.CLIST  
TAPE MIGRAT SB#IC.DPTEXT.CNTL  
TAPE MIGRAT SB#IC.DPTEXT.LOAD  
TAPE MIGRAT SB#IC.DPTEXT.PANELS  
TAPE MIGRAT SB#IC.DPTEXT.SOURCE  
TAPE MIGRAT SB#IC.EDRLOG.SOURCE  
TAPE MIGRAT SB#IC.ENCGEN.ASM  
TAPE MIGRAT SB#IC.ENCYLIST.SOURCE  
TAPE MIGRAT SB#IC.FOURICC.LOAD  
DASD MIGRAT SB#IC.FOURISE.LOAD  
DASD USER25 SB#IC.ISEE1A.DATA  
TAPE MIGRAT SB#IC.ISEE2.DATA  
DASD USER19 SB#IC.ISEE2A.DATA  
TAPE MIGRAT SB#IC.ISEE2RE.DATA  
TAPE MIGRAT SB#IC.ISEE3B.DATA  
DASD USER25 SB#IC.ISEE3BA.DATA  
TAPE MIGRAT SB#IC.ISEE4.DATA  
TAPE MIGRAT SB#IC.ISEE5.DATA  
TAPE MIGRAT SB#IC.ISEE6B.DATA  
TAPE MIGRAT SB#IC.ISPTABL.TABLE  
DASD USER06 SB#IC.LIB.CLIST  
DASD USER30 SB#IC.LIB.CNTL  
DASD MIGRAT SB#IC.LIB.DATA  
DASD USER17 SB#IC.LIB.LOAD  
TAPE MIGRAT SB#IC.LIB.PLOT  
DASD MIGRAT SB#IC.LISTHS2.SOURCE  
DASD USER35 SB#IC.LOG.DATA  
DASD USER02 SB#IC.LOGBK.DATA  
TAPE MIGRAT SB#IC.LOGLIST.SOURCE  
TAPE MIGRAT SB#IC.LOGSVE2.DATA  
TAPE MIGRAT SB#IC.PCPHA.DATA  
TAPE MIGRAT SB#IC.POOL31.A31DAT.DATA  
TAPE MIGRAT SB#IC.POOL32.A32DAT.DATA  
TAPE MIGRAT SB#IC.RMVENC.SOURCE  
DASD M80SC4 SB#IC.SENMS.SPFLG2.LIST  
DASD M80SC2 SB#IC.SENMS.SPFTEMPO.CNTL

edrsave.source  
Encmrg.source

liblist.source

PCPHAFORT  
PCFLUX,source

Replib,source  
SETATT,source

TAPE MIGRAT	SB#IC.SETDCB.OBJ
TAPE MIGRAT	SB#IC.SPCHT2
TAPE MIGRAT	SB#IC.SPCHT2A
TAPE MIGRAT	SB#IC.SPCHT2AA
TAPE MIGRAT	SB#IC.SPCHT2P
TAPE MIGRAT	SB#IC.SPCHT4
TAPE MIGRAT	SB#IC.SPCHT4A
TAPE MIGRAT	SB#IC.SPCHT4AA
TAPE MIGRAT	SB#IC.SPCHT4P
TAPE MIGRAT	SB#IC.SPEC1
TAPE MIGRAT	SB#IC.SPEC1A
TAPE MIGRAT	SB#IC.SPEC1AA
TAPE MIGRAT	SB#IC.SPEC1P
TAPE MIGRAT	SB#IC.SPEC3
TAPE MIGRAT	SB#IC.SPEC3A
TAPE MIGRAT	SB#IC.SPEC3AA
TAPE MIGRAT	SB#IC.SPEC3P
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DASD P66002	SB#IC.S0058000.E0059499
DASD P66002	SB#IC.S0059500.E0060999
DASD P66002	SB#IC.S0061000.E0062499
DASD P66002	SB#IC.S0062500.E0063999
DASD P66003	SB#IC.S0064000.E0065499
DASD P66003	SB#IC.S0065500.E0066999
DASD P66003	SB#IC.S0067000.E0068499
DASD P66003	SB#IC.S0068500.E0069999
DASD P66004	SB#IC.S0070000.E0071499
DASD P66004	SB#IC.S0071500.E0072999
DASD P66004	SB#IC.S0073000.E0074499
DASD P66004	SB#IC.S0074500.E0075999
DASD P66005	SB#IC.S0076000.E0077499
DASD P66005	SB#IC.S0077500.E0078999
DASD P66005	SB#IC.S0079000.E0080499
DASD P66005	SB#IC.S0080500.E0081999
DASD P66006	SB#IC.S0082000.E0083499
DASD P66006	SB#IC.S0083500.E0084999
TAPE MIGRAT	SB#IC.TLS.SOURCE
DASD M80SC4	SB#IC.UNIT10
DASD USER02	SB#IC.USERSGIDE.TEXT
TAPE MIGRAT	SB#IC.XA.LIB.CLIST
TAPE MIGRAT	SB#IC.XTAPE.LOAD

SB#HL PROJECT DATASETS:

TAPE MIGRAT	SB#HL.AACCDM7N.LOAD
TAPE MIGRAT	SB#HL.AREJDM7N.LOAD
DASD MIGRAT	SB#HL.EDRLIST.SOURCE
TAPE MIGRAT	SB#HL.EDRSCAN.LOAD
DASD USER41	SB#HL.FLUXCAT2.DATA
DASD USER39	SB#HL.FLXMNT.LOAD
TAPE MIGRAT	SB#HL.FLXMNT.SOURCE
TAPE MIGRAT	SB#HL.FOURHEL.LOAD
TAPE MIGRAT	SB#HL.HACATLOG.DATA
TAPE MIGRAT	SB#HL.HADRSCTP.DATA
TAPE MIGRAT	SB#HL.HADRSC11.DATA
TAPE MIGRAT	SB#HL.HADRSC21.DATA
TAPE MIGRAT	SB#HL.HADRSC31.DATA
TAPE MIGRAT	SB#HL.HADRSC41.DATA
TAPE MIGRAT	SB#HL.HADRSLOG.DATA
TAPE MIGRAT	SB#HL.HAINDEX.DATA
TAPE MIGRAT	SB#HL.HARTPL.SOURCE
TAPE MIGRAT	SB#HL.HBCATLOG.DATA

DRSMNT, SOURCE  
FLXLST, SOURCE  
HSXRMM, SOURCE  
HFLXDB6, SOURCE

TAPE MIGRAT SB#HL.HBDRSCTP.DATA  
TAPE MIGRAT SB#HL.HBDRSCT1.DATA  
TAPE MIGRAT SB#HL.HBDRSCT2.DATA  
TAPE MIGRAT SB#HL.HBDRSCT3.DATA  
TAPE MIGRAT SB#HL.HBDRSCT4.DATA  
TAPE MIGRAT SB#HL.HBDRSLOG.DATA  
DASD USER04 SB#HL.HELDRP.SOURCE  
TAPE MIGRAT SB#HL.HELIOS.LOAD  
TAPE MIGRAT SB#HL.HEL1F1.DATA  
TAPE MIGRAT SB#HL.HEL12FF.DATA  
TAPE MIGRAT SB#HL.HEL13F.DATA  
TAPE MIGRAT SB#HL.HEL14F.DATA  
TAPE MIGRAT SB#HL.HEL15F.DATA  
TAPE MIGRAT SB#HL.HEL16F.DATA  
TAPE MIGRAT SB#HL.HFLXDBG.LOAD  
TAPE MIGRAT SB#HL.HSXRMN.LOAD  
TAPE MIGRAT SB#HL.ISPTABL.TABLE  
TAPE MIGRAT SB#HL LIB CLIST  
DASD USER29 SB#HL LIB CNTL  
TAPE MIGRAT SB#HL LIB DATA  
TAPE MIGRAT SB#HL LIB LOAD  
TAPE MIGRAT SB#HL LIBGEN LOAD  
TAPE MIGRAT SB#HL PLIBGEN SOURCE  
DASD USER19 SB#HL RATELIST SOURCE  
TAPE MIGRAT SB#HL SBCID OHELIOSA LOAD  
TAPE TD7559 SB#HL TAPE AACCDM7N LOAD  
TAPE TD7559 SB#HL TAPE AREJDM7N LOAD  
TAPE TD7559 SB#HL TAPE BACCDM7N LOAD  
TAPE TD7559 SB#HL TAPE BREJDM7N LOAD  
TAPE MIGRAT SB#HL VERIFY FORT  
TAPE MIGRAT SB#HL VERIFY LOAD  
TAPE MIGRAT SB#HL VS FOURHEL LOAD  
DASD USER09 SB#HL XA FOURHEL LOAD  
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TAPE HLIBM1 SB#HL Z AACCDM7N LOAD V0284198  
TAPE HLIBM1 SB#HL Z AACCDM7N OLDLOAD V0184198  
TAPE HLIBM1 SB#HL Z ADLIBGEN LOAD V0183048  
TAPE HLIBM1 SB#HL Z AREJDM7N LOAD V0183007  
TAPE HLIBM1 SB#HL Z AREJDM7N LOAD V0284198  
TAPE HLIBM1 SB#HL Z AREJDM7N OLDLOAD V0184198  
TAPE HLIBM1 SB#HL Z BACCDM7N LOAD V0183007  
TAPE HLIBM1 SB#HL Z BREJDM7N LOAD V0183007  
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TAPE HLIBM1 SB#HL Z CLKLST LOAD V0283017  
TAPE HLIBM1 SB#HL Z CLKLST LOAD V0384053  
TAPE HLIBM1 SB#HL Z CLKLST OLDLOAD V0184053  
TAPE HLIBM1 SB#HL Z CLOCKA CNTL V0183007  
TAPE HLIBM1 SB#HL Z CLOCKB CNTL V0183007  
TAPE HLIBM1 SB#HL Z DRPPUN LOAD V0187139  
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TAPE HLIBM1 SB#HL Z EDRLIST SOURCE V0183010  
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TAPE HLIBM1 SB#HL Z EDRSCAN LOAD V0484053  
TAPE HLIBM1 SB#HL Z EDRSCAN OLDLOAD V0184053  
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TAPE HLIBM1 SB#HL Z FLXLST SOURCE V0183110  
TAPE HLIBM1 SB#HL Z FLXMNT LOAD V0183007  
TAPE HLIBM1 SB#HL Z FLXMNT LOAD V0284048  
TAPE HLIBM1 SB#HL Z FLXMNT LOAD V0385294

Q BOFIX SOURCE  
SCANLIB SOURCE  
TAPE DMPS SOURCE  
TRATCN SOURCE  
TAPS22 SOURCE

TAPE HLIBM1 SB#HL.Z.FLXMNT.OLDLOAD.V0184048  
TAPE HLIBM1 SB#HL.Z.FLXMNT.SOURCE.V0183007  
TAPE HLIBM1 SB#HL.Z.FLXMNT.SOURCE.V0285294  
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TAPE HLIBM1 SB#HL.Z.FOURHEL.LOAD.V0283335  
TAPE HLIBM1 SB#HL.Z.FOURHEL.LOAD.V0384100  
TAPE HLIBM1 SB#HL.Z.FOURHEL.LOAD.V0490362  
TAPE HLIBM1 SB#HL.Z.HACATLOG.DATA.V0185275  
TAPE HLIBM1 SB#HL.Z.HACATLOG.DATA.V0286093  
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TAPE HLIBM1 SB#HL.Z.HADRSCT2.DATA.V0185275  
TAPE HLIBM1 SB#HL.Z.HADRSCT3.DATA.V0185275  
TAPE HLIBM1 SB#HL.Z.HADRSCT4.DATA.V0185275  
TAPE HLIBM1 SB#HL.Z.HADRSLOG.DATA.V0185275  
TAPE HLIBM1 SB#HL.Z.HAINDEX.DATA.V0185275  
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TAPE HLIBM1 SB#HL.Z.HARTPL.SOURCE.V0283070  
TAPE HLIBM1 SB#HL.Z.HBDRSCTP.DATA.V0185275  
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TAPE HLIBM1 SB#HL.Z.HBDRSCT2.DATA.V0185275  
TAPE HLIBM1 SB#HL.Z.HBDRSCT3.DATA.V0185275  
TAPE HLIBM1 SB#HL.Z.HBDRSCT4.DATA.V0185275  
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TAPE HLIBM1 SB#HL.Z.HELIOS.TEXT.V0283257  
TAPE HLIBM1 SB#HL.Z.HELP.TEXT.V0183165  
TAPE HLIBM1 SB#HL.Z.HELP.TEXT.V0283166  
TAPE HLIBM1 SB#HL.Z.HELP.TEXT.V0383166  
TAPE HLIBM1 SB#HL.Z.HELP.TEXT.V0483192  
TAPE HLIBM1 SB#HL.Z.HELP.TEXT.V0587139  
TAPE HLIBM1 SB#HL.Z.HEL1F1.DATA.V0187139  
TAPE HLIBM1 SB#HL.Z.HEL1F1.DATA.V0287139  
TAPE HLIBM1 SB#HL.Z.HEL11.DATA.V0187139  
TAPE HLIBM1 SB#HL.Z.HEL12FF.DATA.V0187139  
TAPE HLIBM1 SB#HL.Z.HEL13F.DATA.V0187139  
TAPE HLIBM1 SB#HL.Z.HEL14.DATA.V0187139  
TAPE HLIBM1 SB#HL.Z.HEL14F.DATA.V0187139  
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TAPE MIGRAT SB#VG.LIBB.CLIST  
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TAPE MIGRAT SB#VG.LOG.ODATA  
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TAPE MIGRAT SB#VG.LSELECT.SOURCE  
TAPE MIGRAT SB#VG.LSELECT1.LOAD  
TAPE MIGRAT SB#VG.M1RTRJ.DATA  
TAPE MIGRAT SB#VG.M1STRJ.DATA  
TAPE MIGRAT SB#VG.M2RTRJ.DATA  
TAPE MIGRAT SB#VG.M2STRJ.DATA  
TAPE MIGRAT SB#VG.NORM.VOY12FA.DATA  
TAPE MIGRAT SB#VG.NORM.VOY13BFA.DATA  
TAPE MIGRAT SB#VG.NWENCY.FORT  
TAPE MIGRAT SB#VG.NWENCY.LOAD  
TAPE MIGRAT SB#VG.OLIB.LOAD  
TAPE MIGRAT SB#VG.OWLTHREAD.LOAD

TAPE MIGRAT SB#VG.PCFLUX.LOAD  
TAPE MIGRAT SB#VG.PCFLUX.SOURCE  
TAPE MIGRAT SB#VG.PCPHA.FORT  
TAPE MIGRAT SB#VG.PCPHA.LOAD  
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TAPE MIGRAT SB#VG.RMVEDR.SOURCE  
TAPE MIGRAT SB#VG.RMVENC.SOURCE  
TAPE MIGRAT SB#VG.RMVWRK.SOURCE  
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DASD USER01 SB#VG.SC32.CNTL  
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TAPE MIGRAT SB#VG.SPC1TMA  
TAPE MIGRAT SB#VG.SPC1TMAA  
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TAPE MIGRAT SB#VG.V265B  
TAPE MIGRAT SB#VG.V265BA  
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DASD P66009 SB#VG.Z2313910

IMP	TYPE	VOLSER	RSEQ	NO. OF RECORDS	SPACECRAFT START	CLOCK END
7	FLUX	E01517	9	42333	0	1122944
7	FLUX	E04872	7	58332	4065280	3507968
7	FLUX	E04902	10	7259	0	843776
7	FLUX	E04924	1	64560	0	2656192
7	FLUX	E04942	3	66472	0	1541888
7	FLUX	E04957	2	67783	0	3589952
7	FLUX	E04961	4	62170	0	1402624
7	FLUX	E04963	6	54673	0	149248
7	FLUX	E03693	5	58515	0	4089600
7	FLUX	E04522	8	58776	0	1270400
7	TOTAL RECORDS =			540873	RECL 520	
			I8 BYTES, MBYTE		2.8125E+08	2.6822E+02

IMP	TYPE	VOLSER	RSEQ	NO. OF RECORDS	SPACECRAFT START	CLOCK END
7	SMCT	E01659	6	11089	1820544	1541248
7	SMCT	E01662	1	10608	3413120	2934144
7	SMCT	E01668	5	11307	2099072	1819840
7	SMCT	E01773	2	11151	2934848	2655552
7	SMCT	E01779	3	11307	2656256	2376960
7	SMCT	E01800	10	9708	717568	427136
7	SMCT	E04715	8	11074	1263424	984448
7	SMCT	E04718	9	10734	984896	703488
7	SMCT	E04719	17	9086	3162816	2883584
7	SMCT	E04722	11	8979	427840	148608
7	SMCT	E04728	12	10085	212800	4064320
7	SMCT	E04739	15	10260	3508032	3440640
7	SMCT	E04765	16	10554	3441344	3162112
7	SMCT	E04788	7	11219	1541952	1262720
7	SMCT	E04838	18	8318	2884288	2602944
7	SMCT	E04853	19	2932	2606592	1112256
7	SMCT	E04875	13	10180	4065024	3785792
7	SMCT	E04878	14	10128	3786688	3507328
7	SMCT	E04895	4	11433	2377664	2098368
7	TOTAL RECORDS =			190152	RECL 2460	
			I8 BYTES, MBYTE		4.6777E+08	4.4610E+02

IMP	TYPE	VOLSER	RSEQ	NO. OF RECORDS	SPACECRAFT START	CLOCK END
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VLET\*\*\*\*TAPE/TAPES NOT FOUND IN CATALOG\*\*\*\*

7	TOTAL RECORDS =			0	RECL 0	
			I8 BYTES, MBYTE		0.0000E+00	0.0000E+00

IMP	TYPE	VOLSER	RSEQ	NO. OF RECORDS	SPACECRAFT START	CLOCK END
7	MATR	E01583	2	5009	2934848	2656192
7	MATR	E01611	0	235	324224	600192
7	MATR	E01616	3	5091	2656256	2377600
7	MATR	E01628	10	3603	717568	427776
7	MATR	E01665	4	5084	2377664	2099008
7	MATR	E01698	8	4501	1263424	984832
7	MATR	E01705	6	4544	1820544	1541888
7	MATR	E01720	5	5067	2099072	1820480
7	MATR	E01788	14	3894	3786688	3507968
7	MATR	E01790	7	4512	1541952	1263360
7	MATR	E04708	15	3948	3508032	3441280
7	MATR	E04736	9	4261	984896	703872

7	MATR	E04759	11	3231	427840	149248
7	MATR	E04796	18	2682	2884288	2603456
7	MATR	E04834	0	434	3087040	3673024
7	MATR	E04874	12	3828	212800	4064960
7	MATR	E04882	19	840	2606592	1112256
7	MATR	E04899	13	3897	4065024	3786368
7	MATR	E04903	0	235	324224	600192
7	MATR	E04904	0	208	391808	526976
7	MATR	E04908	0	921	2214976	3023552
7	MATR	E04923	0	895	3432000	41664
7	MATR	E04964	1	4847	3413120	2934784
7	MATR	E04984	17	3063	3162816	2884224
7	MATR	E04991	0	147	848064	932544
7	MATR	E03682	16	3870	3441344	3162752
7	MATR	E04501	0	138	898752	1000128
7	MATR	E04516	0	117	1000128	1135296
7	MATR	E04521	0	425	506560	844480
7	TOTAL RECORDS =			79527	RECL	7280
			I8 BYTES, MBYTE		5.7896E+08	5.5214E+02

IMP	TYPE	VOLSER	RSEQ	NO. OF RECORDS	SPACECRAFT	CLOCK
					START	END
7	LOWG	E01569	1	39554	3413120	4147136
7	LOWG	E01615	2	38945	4147200	886656
7	LOWG	E01623	7	23268	427840	1361600
7	LOWG	E01666	3	39526	886720	1820480
7	LOWG	E01751	4	40978	1820544	2754304
7	LOWG	E01769	10	27433	3441344	180864
7	LOWG	E01777	5	34441	2754368	3688192
7	LOWG	E04912	9	28129	2295616	3441280
7	LOWG	E04983	6	26831	3688256	427776
7	LOWG	E03668	8	26890	1361792	2295552
7	LOWG	E03671	11	28584	180928	1112256
7	TOTAL RECORDS =			354579	RECL	328
			I8 BYTES, MBYTE		1.1630E+08	1.1091E+02

IMP	TYPE	VOLSER	RSEQ	NO. OF RECORDS	SPACECRAFT	CLOCK
					START	END
7	CNTS	E01511	1	16063	3413120	370752
7	CNTS	E01520	2	17071	370816	1722368
7	CNTS	E01529	3	19506	1722432	3074048
7	CNTS	E01534	4	20313	3074112	231424
7	CNTS	E01536	5	20522	231488	1583040
7	CNTS	E01538	6	20198	1585472	2934784
7	CNTS	E01545	7	20842	2934848	92160
7	CNTS	E01559	9	20510	1443904	2795456
7	CNTS	E01563	8	20880	92224	1443840
7	CNTS	E01565	12	18265	1304576	2656192
7	CNTS	E01570	17	20702	3868608	1025920
7	CNTS	E01573	10	20460	2795520	4147136
7	CNTS	E01575	11	19554	4147200	1304512
7	CNTS	E01579	13	20434	2656256	4007872
7	CNTS	E01581	14	19792	4007936	1165184
7	CNTS	E01590	15	20561	1165248	2516864
7	CNTS	E01599	16	20839	2516928	3868544
7	CNTS	E01603	18	20281	1025984	2377600
7	CNTS	E01605	19	20070	2377664	3729280
7	CNTS	E01612	20	16661	3999680	886656
7	CNTS	E01625	23	20636	3590016	747328
7	CNTS	E01627	22	20812	2238336	3589952
7	CNTS	E01635	25	19971	2099072	3450688
7	CNTS	E01637	71	17513	1361792	2713152
7	CNTS	E01644	47	19399	2475840	3826496
7	CNTS	E01658	58	14487	567040	1916672

7	CNTS	E01672	28	20649	1959808	3311424
7	CNTS	E01684	27	20544	608128	1959744
7	CNTS	E01685	26	20247	3450752	608064
7	CNTS	E01691	29	20348	3311488	468800
7	CNTS	E01696	31	18879	1820544	3172160
7	CNTS	E01699	48	17978	3833024	984832
7	CNTS	E01719	30	20247	468864	1820480
7	CNTS	E01723	32	19229	3172224	329536
7	CNTS	E01725	33	20665	329600	1681216
7	CNTS	E01727	34	19096	1681280	3032832
7	CNTS	E01729	35	20528	3032896	190208
7	CNTS	E01736	37	19535	1541952	2893568
7	CNTS	E01737	36	20453	190272	1541888
7	CNTS	E01746	50	19815	2336576	3688192
7	CNTS	E01756	38	20041	2893632	50944
7	CNTS	E01757	39	20502	51008	1402624
7	CNTS	E01765	40	20251	1402688	2754304
7	CNTS	E01768	41	20514	2754368	4105984
7	CNTS	E01789	43	20389	1263424	2615040
7	CNTS	E01792	51	19090	3688256	845568
7	CNTS	E01795	44	19866	2615104	3966720
7	CNTS	E04710	53	19084	2197312	3548928
7	CNTS	E04713	62	15615	1779520	3131136
7	CNTS	E04721	45	20487	3966784	1124096
7	CNTS	E04724	46	19825	1124160	2475776
7	CNTS	E04727	54	20075	3548992	703872
7	CNTS	E04729	55	18479	717568	2057920
7	CNTS	E04732	57	18135	3409728	566976
7	CNTS	E04741	56	18712	2057984	3409600
7	CNTS	E04744	49	18044	984896	2336512
7	CNTS	E04748	59	13494	1926080	3270336
7	CNTS	E04762	66	14821	3036736	149248
7	CNTS	E04776	61	13880	427840	1779456
7	CNTS	E04777	63	17170	3131200	273856
7	CNTS	E04783	21	20724	886720	2238272
7	CNTS	E04790	64	13676	311744	1640192
7	CNTS	E04800	65	14391	1640256	2987904
7	CNTS	E04801	106	12421	2745216	4096640
7	CNTS	E04823	68	17193	1500992	2852608
7	CNTS	E04825	69	17832	2852672	9920
7	CNTS	E04828	70	16874	9984	1361600
7	CNTS	E04832	72	17339	2713408	4064960
7	CNTS	E04835	73	17901	4065024	1222336
7	CNTS	E04836	75	16734	2574080	3925696
7	CNTS	E04840	74	17617	1222400	2574016
7	CNTS	E04854	79	17530	3786688	935552
7	CNTS	E04858	80	16710	951104	2295552
7	CNTS	E04861	107	12723	4096704	1254016
7	CNTS	E04864	77	17625	1083136	2434752
7	CNTS	E04869	78	16848	2434816	3786368
7	CNTS	E04894	82	17946	3647296	803136
7	CNTS	E04898	95	17798	459456	1811072
7	CNTS	E04906	93	17950	1950400	3302016
7	CNTS	E04910	86	18741	668800	2228800
7	CNTS	E04914	85	15835	3508032	660800
7	CNTS	E04918	83	17336	824256	2154624
7	CNTS	E04921	67	16367	212800	1500928
7	CNTS	E04925	84	18251	2156928	3507968
7	CNTS	E04931	104	14373	41664	1393280
7	CNTS	E04933	88	18156	3580608	737024
7	CNTS	E04935	89	17406	738112	2089600
7	CNTS	E04941	90	18165	2089664	3441280
7	CNTS	E04946	92	18849	598720	1950336
7	CNTS	E04953	76	17569	3925760	1083072
7	CNTS	E04958	108	13854	1254080	2603456
7	CNTS	E04960	99	14301	1682176	3023488

7	CNTS	E04962	94	18395	3302080	459392
7	CNTS	E04971	96	18782	1811136	3162752
7	CNTS	E04996	109	13778	2606592	3957120
7	CNTS	E03654	97	16363	3162816	320128
7	CNTS	E03655	52	17991	845632	2197248
7	CNTS	E03657	101	15167	180928	1532544
7	CNTS	E03659	102	14632	1532608	2884224
7	CNTS	E03661	100	12872	3023552	180864
7	CNTS	E03665	42	20400	4106048	1263360
7	CNTS	E03667	87	18110	2228928	3580544
7	CNTS	E03669	81	16809	2295616	3647232
7	CNTS	E03670	98	15429	320192	1667136
7	CNTS	E03685	91	18190	3441344	598656
7	CNTS	E03689	103	13329	2884288	41600
7	CNTS	E04511	105	12996	1393344	2735488
7	CNTS	E04519	110	13850	3958144	1112256
7	CNTS	E04524	60	16761	3270400	427776
7	TOTAL RECORDS =			1963918	RECL	1188
			18	BYTES, MBYTE	2.3331E+09	2.2251E+03

IMP	TYPE	VOLSER	RSEQ	NO. OF RECORDS	SPACECRAFT	CLOCK
					START	END
7	PHAS	E01502	21	20724	886720	2238272
7	PHAS	E01510	1	16063	3413120	370752
7	PHAS	E01514	23	20646	3590016	747328
7	PHAS	E01515	4	20313	3074112	231424
7	PHAS	E01525	3	19506	1722432	3074048
7	PHAS	E01535	5	20522	231488	1583040
7	PHAS	E01537	6	20198	1585472	2934784
7	PHAS	E01539	7	20842	2934848	92160
7	PHAS	E01553	9	20510	1443904	2795456
7	PHAS	E01562	8	20880	92224	1443840
7	PHAS	E01564	12	18265	1304576	2656192
7	PHAS	E01566	16	20842	2516928	3868544
7	PHAS	E01572	10	20460	2795520	4147136
7	PHAS	E01574	11	19554	4147200	1304512
7	PHAS	E01578	13	20434	2656256	4007872
7	PHAS	E01580	14	19792	4007936	1165184
7	PHAS	E01589	15	20561	1165248	2516864
7	PHAS	E01597	17	20702	3868608	1025920
7	PHAS	E01602	18	20281	1025984	2377600
7	PHAS	E01604	79	17530	3786688	935552
7	PHAS	E01608	65	14412	1640256	2987904
7	PHAS	E01622	28	20649	1959808	3311424
7	PHAS	E01626	22	20812	2238336	3589952
7	PHAS	E01632	35	20528	3032896	190208
7	PHAS	E01634	25	19971	2099072	3450688
7	PHAS	E01643	47	19399	2475840	3826496
7	PHAS	E01646	55	18479	717568	2057920
7	PHAS	E01673	26	20247	3450752	608064
7	PHAS	E01683	27	20544	608128	1959744
7	PHAS	E01692	34	19096	1681280	3032832
7	PHAS	E01715	50	19815	2336576	3688192
7	PHAS	E01721	81	16809	2295616	3647232
7	PHAS	E01722	32	19229	3172224	329536
7	PHAS	E01724	33	20665	329600	1681216
7	PHAS	E01726	29	20348	3311488	468800
7	PHAS	E01728	36	20453	190272	1541888
7	PHAS	E01733	31	18879	1820544	3172160
7	PHAS	E01734	37	19535	1541952	2893568
7	PHAS	E01735	30	20247	468864	1820480
7	PHAS	E01748	58	14487	567040	1916672
7	PHAS	E01752	49	18044	984896	2336512
7	PHAS	E01754	39	20502	51008	1402624
7	PHAS	E01755	38	20041	2893632	50944

7	PHAS	E01764	40	20251	1402688	2754304
7	PHAS	E01771	43	20389	1263424	2615040
7	PHAS	E01784	41	20514	2754368	4105984
7	PHAS	E01791	51	19090	3688256	845568
7	PHAS	E01797	66	14821	3036736	149248
7	PHAS	E04709	53	19084	2197312	3548928
7	PHAS	E04711	62	15615	1779520	3131136
7	PHAS	E04712	44	19866	2615104	3966720
7	PHAS	E04720	45	20487	3966784	1124096
7	PHAS	E04723	46	19825	1124160	2475776
7	PHAS	E04726	54	20075	3548992	703872
7	PHAS	E04731	57	18135	3409728	566976
7	PHAS	E04735	56	18712	2057984	3409600
7	PHAS	E04740	59	13494	1926080	3270336
7	PHAS	E04750	63	17170	3131200	273856
7	PHAS	E04771	75	16734	2574080	3925696
7	PHAS	E04775	61	13880	427840	1779456
7	PHAS	E04782	48	17978	3833024	984832
7	PHAS	E04784	64	13676	311744	1640192
7	PHAS	E04791	77	17625	1083136	2434752
7	PHAS	E04798	106	12421	2745216	4096640
7	PHAS	E04799	67	16367	212800	1500928
7	PHAS	E04816	73	17901	4065024	1222336
7	PHAS	E04818	71	17513	1361792	2713152
7	PHAS	E04819	70	16874	9984	1361600
7	PHAS	E04822	68	17193	1500992	2852608
7	PHAS	E04824	69	17832	2852672	9920
7	PHAS	E04829	0	0	0	0
7	PHAS	E04831	72	17339	2713408	4064960
7	PHAS	E04837	107	12723	4096704	1254016
7	PHAS	E04839	74	17617	1222400	2574016
7	PHAS	E04848	78	16848	2434816	3786368
7	PHAS	E04849	91	18190	3441344	598656
7	PHAS	E04857	80	16710	951104	2295552
7	PHAS	E04863	95	17798	459456	1811072
7	PHAS	E04880	19	20070	2377664	3729280
7	PHAS	E04881	84	18251	2156928	3507968
7	PHAS	E04893	86	18741	668800	2228800
7	PHAS	E04900	20	16661	3999680	886656
7	PHAS	E04901	89	17406	738112	2089600
7	PHAS	E04905	93	17950	1950400	3302016
7	PHAS	E04911	82	17946	3647296	803136
7	PHAS	E04913	85	15835	3508032	660800
7	PHAS	E04916	0	0	0	0
7	PHAS	E04917	83	17336	824256	2154624
7	PHAS	E04919	88	18156	3580608	737024
7	PHAS	E04922	104	14373	41664	1393280
7	PHAS	E04926	108	13854	1254080	2603456
7	PHAS	E04927	42	20400	4106048	1263360
7	PHAS	E04940	90	18165	2089664	3441280
7	PHAS	E04945	92	18849	598720	1950336
7	PHAS	E04951	76	17569	3925760	1083072
7	PHAS	E04956	94	18395	3302080	459392
7	PHAS	E04959	99	14301	1682176	3023488
7	PHAS	E04965	100	12872	3023552	180864
7	PHAS	E04970	96	18782	1811136	3162752
7	PHAS	E04979	24	20904	747392	2099008
7	PHAS	E04985	52	17991	845632	2197248
7	PHAS	E04986	109	13778	2606592	3957120
7	PHAS	E05000	2	17071	370816	1722368
7	PHAS	E03653	97	16363	3162816	320128
7	PHAS	E03656	101	15167	180928	1532544
7	PHAS	E03658	102	14632	1532608	2884224
7	PHAS	E03664	98	15429	320192	1667136
7	PHAS	E03666	87	18110	2228928	3580544
7	PHAS	E03687	103	13329	2884288	41600

7	PHAS	E04510	105	12996	1393344	2735488
7	PHAS	E04518	110	13850	3958144	1112256
7	PHAS	E04520	60	16761	3270400	427776
7	TOTAL RECORDS =			1984856	RECL	1504
			I8	BYTES, MBYTE	2.9852E+09	2.8469E+03

IMP	TYPE	VOLSER	RSEQ	NO. OF RECORDS	SPACECRAFT	CLOCK
					START	END
7	ENCY	E01501	1104	9052	3413120	4024384
7	ENCY	E01503	29103	12282	755648	1566272
7	ENCY	E01504	2104	11119	4024448	641088
7	ENCY	E01505	4105	11110	1452096	2263040
7	ENCY	E01506	5105	12074	2263104	3074048
7	ENCY	E01507	1004	9052	3413120	4024384
7	ENCY	E01508	3104	9285	641152	1452032
7	ENCY	E01509	2004	11119	4024448	641088
7	ENCY	E01512	14102	12581	1173568	1984448
7	ENCY	E01513	3004	9285	641152	1452032
7	ENCY	E01516	7002	12083	3885120	501760
7	ENCY	E01518	7102	12083	3885120	501760
7	ENCY	E01519	8103	12360	501824	1312768
7	ENCY	E01521	5005	12074	2263104	3074048
7	ENCY	E01522	31103	11894	2377664	3188608
7	ENCY	E01523	11104	12536	2934848	3745792
7	ENCY	E01524	9002	12385	1312832	2123776
7	ENCY	E01526	8003	12360	501824	1312768
7	ENCY	E01527	9102	12385	1312832	2123776
7	ENCY	E01528	10104	11905	2123840	2934784
7	ENCY	E01530	10004	11905	2123840	2934784
7	ENCY	E01531	13105	12484	362560	1173504
7	ENCY	E01532	15003	12148	1984512	2795456
7	ENCY	E01533	6004	12300	3074112	3885056
7	ENCY	E01540	12005	12483	3745856	362496
7	ENCY	E01541	12105	12483	3745856	362496
7	ENCY	E01542	15103	12148	1984512	2795456
7	ENCY	E01543	13005	12484	362560	1173504
7	ENCY	E01544	22103	12435	3467264	83904
7	ENCY	E01546	14002	12581	1173568	1984448
7	ENCY	E01547	17102	11977	3606528	223168
7	ENCY	E01548	20005	11477	1859264	2656192
7	ENCY	E01549	18003	11627	223232	1034176
7	ENCY	E01550	17002	11977	3606528	223168
7	ENCY	E01551	18103	11627	223232	1034176
7	ENCY	E01552	22003	12435	3467264	83904
7	ENCY	E01554	16104	12315	2795520	3606464
7	ENCY	E01555	19104	10883	1034240	1842176
7	ENCY	E01556	20105	11477	1859264	2656192
7	ENCY	E01557	24103	12539	894912	1705856
7	ENCY	E01558	25102	12237	1705920	2516864
7	ENCY	E01560	21003	12124	2656256	3467200
7	ENCY	E01561	21103	12124	2656256	3467200
7	ENCY	E01567	25002	12237	1705920	2516864
7	ENCY	E01568	16004	12315	2795520	3606464
7	ENCY	E01571	27104	12568	3327936	4138880
7	ENCY	E01576	23104	11452	160640	894848
7	ENCY	E01577	26004	12455	2516928	3327872
7	ENCY	E01582	19004	10883	1034240	1842176
7	ENCY	E01584	28103	12317	4138944	755584
7	ENCY	E01585	24003	12539	894912	1705856
7	ENCY	E01586	29003	12282	755648	1566272
7	ENCY	E01587	27004	12568	3327936	4138880
7	ENCY	E01588	30003	12203	1566656	2377600
7	ENCY	E01591	30103	12203	1566656	2377600
7	ENCY	E01592	4005	11110	1452096	2263040
7	ENCY	E01593	23004	11452	160640	894848

7	ENCY	E01594	26104	12455	2516928	3327872
7	ENCY	E01595	6104	12300	3074112	3885056
7	ENCY	E01596	32103	12397	3188672	3999616
7	ENCY	E01598	28003	12317	4138944	755584
7	ENCY	E01600	31003	11894	2377664	3188608
7	ENCY	E01601	33003	12453	3999680	616320
7	ENCY	E01606	32003	12397	3188672	3999616
7	ENCY	E01607	33103	12453	3999680	616320
7	ENCY	E01609	35102	12284	1427328	2238272
7	ENCY	E01610	85004	11108	34624	845568
7	ENCY	E01613	35002	12284	1427328	2238272
7	ENCY	E01614	79007	11568	3557184	173824
7	ENCY	E01617	76005	12165	1124160	1935104
7	ENCY	E01618	36103	12506	2238336	3049280
7	ENCY	E01619	37003	12448	3049344	3860288
7	ENCY	E01620	36003	12506	2238336	3049280
7	ENCY	E01621	37103	12448	3049344	3860288
7	ENCY	E01624	40003	12541	1288064	2099008
7	ENCY	E01629	45004	12177	1148800	1959744
7	ENCY	E01630	53103	12169	3442560	59200
7	ENCY	E01631	40103	12541	1288064	2099008
7	ENCY	E01633	79107	11568	3557184	173824
7	ENCY	E01636	176004	7983	2745216	3555968
7	ENCY	E01638	42103	12201	2910080	3721024
7	ENCY	E01639	41103	11800	2099072	2910016
7	ENCY	E01640	80004	10001	173888	984832
7	ENCY	E01641	93104	11283	2340416	3139264
7	ENCY	E01642	81105	10313	984896	1795840
7	ENCY	E01645	85104	11108	34624	845568
7	ENCY	E01647	80004	10001	173888	984832
7	ENCY	E01648	82006	11171	1795904	2606848
7	ENCY	E01649	76105	12164	1124160	1935104
7	ENCY	E01650	77104	11378	1935168	2746112
7	ENCY	E01651	78004	12081	2746176	3557120
7	ENCY	E01652	41003	11800	2099072	2910016
7	ENCY	E01653	77004	11378	1935168	2746112
7	ENCY	E01654	78104	12081	2746176	3557120
7	ENCY	E01655	86105	10534	845632	1656576
7	ENCY	E01656	34003	12648	616384	1427264
7	ENCY	E01657	34103	12648	616384	1427264
7	ENCY	E01660	131004	10124	3786688	403136
7	ENCY	E01661	131104	10124	3786688	403136
7	ENCY	E01663	135004	10131	2836288	3647232
7	ENCY	E01664	133105	10256	1214208	2025216
7	ENCY	E01667	45104	12177	1148800	1959744
7	ENCY	E01669	132004	9990	403200	1214144
7	ENCY	E01670	42003	12201	2910080	3721024
7	ENCY	E01671	43104	12146	3721088	337728
7	ENCY	E01674	46104	12329	1959808	2770752
7	ENCY	E01675	47003	12225	2770816	3581760
7	ENCY	E01676	43004	12146	3721088	337728
7	ENCY	E01677	46004	12329	1959808	2770752
7	ENCY	E01678	47103	12225	2770816	3581760
7	ENCY	E01679	38005	12471	3860352	476992
7	ENCY	E01680	44004	12438	337792	1148736
7	ENCY	E01681	44104	12438	337792	1148736
7	ENCY	E01682	38105	12471	3860352	476992
7	ENCY	E01686	54004	11709	59264	870208
7	ENCY	E01687	55003	12421	870272	1681216
7	ENCY	E01688	57103	11920	2492224	3303168
7	ENCY	E01689	55103	12421	870272	1681216
7	ENCY	E01690	50003	12058	1009536	1820480
7	ENCY	E01693	54104	11709	59264	870208
7	ENCY	E01694	50103	12058	1009536	1820480
7	ENCY	E01695	59004	12130	4114240	730880
7	ENCY	E01697	59104	12130	4114240	730880

7	ENCY	E01700	82106	11171	1795904	2606848
7	ENCY	E01701	81005	10313	984896	1795840
7	ENCY	E01702	39008	12396	477056	1288000
7	ENCY	E01703	39108	12396	477056	1288000
7	ENCY	E01704	48003	12488	3581824	198464
7	ENCY	E01706	53003	12169	3442560	59200
7	ENCY	E01707	48103	12488	3581824	198464
7	ENCY	E01708	56003	11108	1681280	2492160
7	ENCY	E01709	75004	12102	313152	1124096
7	ENCY	E01710	56103	11108	1681280	2492160
7	ENCY	E01711	60003	12499	730944	1541888
7	ENCY	E01712	49003	12144	198528	1009472
7	ENCY	E01713	49103	12144	198528	1009472
7	ENCY	E01714	83104	12292	2606912	3417856
7	ENCY	E01716	57003	11920	2492224	3303168
7	ENCY	E01717	58104	12420	3303232	4114176
7	ENCY	E01718	61104	11871	1541952	2352896
7	ENCY	E01730	84002	12065	3417920	34560
7	ENCY	E01731	63104	12113	3163968	3974912
7	ENCY	E01732	58004	12420	3303232	4114176
7	ENCY	E01738	52002	11150	2631552	3442496
7	ENCY	E01739	52102	11150	2631552	3442496
7	ENCY	E01740	51003	11324	1820544	2631488
7	ENCY	E01741	51103	11324	1820544	2631488
7	ENCY	E01742	87005	10968	1656640	2467584
7	ENCY	E01743	62005	11448	2352960	3163904
7	ENCY	E01744	84102	12065	3417920	34560
7	ENCY	E01745	61004	11871	1541952	2352896
7	ENCY	E01747	63004	12113	3163968	3974912
7	ENCY	E01749	62105	11448	2352960	3163904
7	ENCY	E01750	66004	12096	1402688	2213632
7	ENCY	E01753	66104	12096	1402688	2213632
7	ENCY	E01758	64003	12128	3974976	591616
7	ENCY	E01759	64103	12128	3974976	591616
7	ENCY	E01760	83004	12292	2606912	3417856
7	ENCY	E01761	89004	11976	3278656	4089600
7	ENCY	E01762	67003	12162	2213696	3024640
7	ENCY	E01763	67103	12162	2213696	3024640
7	ENCY	E01766	65002	12518	591680	1402624
7	ENCY	E01767	65102	12518	591680	1402624
7	ENCY	E01770	71004	12067	1263424	2074368
7	ENCY	E01772	89104	11976	3278656	4089600
7	ENCY	E01774	88104	11561	2467648	3278592
7	ENCY	E01775	69004	12325	3835712	452352
7	ENCY	E01776	69104	12325	3835712	452352
7	ENCY	E01778	68006	12297	3024704	3835648
7	ENCY	E01780	86005	10534	845632	1656576
7	ENCY	E01781	70105	12285	452416	1263360
7	ENCY	E01782	71104	12067	1263424	2074368
7	ENCY	E01783	72004	12387	2074432	2885376
7	ENCY	E01785	72104	12387	2074432	2885376
7	ENCY	E01786	73104	11898	2885440	3696384
7	ENCY	E01787	68106	12297	3024704	3835648
7	ENCY	E01793	75104	12102	313152	1124096
7	ENCY	E01794	132104	9990	403200	1214144
7	ENCY	E01796	88004	11561	2467648	3278592
7	ENCY	E01798	87105	10968	1656640	2467584
7	ENCY	E01799	93004	11283	2340416	3139264
7	ENCY	E04701	94104	10997	3139328	3950272
7	ENCY	E04702	92104	10762	1517312	2320000
7	ENCY	E04703	90005	12111	4089664	703872
7	ENCY	E04704	91004	11715	717568	1517248
7	ENCY	E04705	91104	11715	717568	1517248
7	ENCY	E04706	92004	10762	1517312	2320000
7	ENCY	E04707	90105	12111	4089664	703872
7	ENCY	E04714	73004	11898	2885440	3696384

7	ENCY	E04716	74004	12288	3696448	313088
7	ENCY	E04717	74104	12288	3696448	313088
7	ENCY	E04725	99104	8743	3009984	3811072
7	ENCY	E04730	94004	10997	3139328	3950272
7	ENCY	E04733	95005	10569	3950336	566976
7	ENCY	E04734	98005	7972	2189056	2989120
7	ENCY	E04737	98105	7972	2189056	2989120
7	ENCY	E04738	99004	8743	3009984	3811072
7	ENCY	E04742	96002	9905	567040	1376384
7	ENCY	E04743	96102	9905	567040	1376384
7	ENCY	E04745	97003	7831	1378752	2188992
7	ENCY	E04746	97103	7831	1378752	2188992
7	ENCY	E04747	103104	9256	2049920	2860800
7	ENCY	E04749	137104	10180	264000	1074560
7	ENCY	E04751	101004	8649	427840	1235520
7	ENCY	E04752	160005	11004	2351808	3162752
7	ENCY	E04753	104104	10274	2860864	3671808
7	ENCY	E04754	101104	8649	427840	1235520
7	ENCY	E04755	102004	8805	1243392	2049792
7	ENCY	E04756	102104	8805	1243392	2049792
7	ENCY	E04757	104004	10274	2860864	3671808
7	ENCY	E04758	105002	9681	3671872	273856
7	ENCY	E04760	108003	8644	1910592	2721536
7	ENCY	E04761	115104	10803	3398912	9920
7	ENCY	E04763	100006	10291	3811136	427776
7	ENCY	E04764	100106	10291	3811136	427776
7	ENCY	E04766	105101	6646	3957696	273856
7	ENCY	E04767	106004	7199	311744	1099520
7	ENCY	E04768	108003	8644	1910592	2721536
7	ENCY	E04769	103004	9256	2049920	2860800
7	ENCY	E04770	107006	9813	1109376	1910528
7	ENCY	E04772	110006	9662	3532608	149248
7	ENCY	E04773	107106	9813	1109376	1910528
7	ENCY	E04774	128004	10248	1353472	2164416
7	ENCY	E04778	109006	7859	2721600	3532544
7	ENCY	E04779	135004	10131	2836288	3647232
7	ENCY	E04780	136107	10594	3647296	263936
7	ENCY	E04781	106004	7199	311744	1099520
7	ENCY	E04785	134004	10549	2025280	2836224
7	ENCY	E04786	109106	7859	2721600	3532544
7	ENCY	E04787	110106	9662	3532608	149248
7	ENCY	E04789	113104	10389	1771328	2582272
7	ENCY	E04792	114104	10744	2582336	3392768
7	ENCY	E04793	128104	10248	1353472	2164416
7	ENCY	E04794	113004	10389	1771328	2582272
7	ENCY	E04795	111103	9225	212800	960256
7	ENCY	E04797	112006	10231	960320	1771264
7	ENCY	E04802	114004	10744	2582336	3392768
7	ENCY	E04803	122104	11164	681728	1492672
7	ENCY	E04804	116002	10678	9984	820928
7	ENCY	E04805	124002	9851	2305664	3114688
7	ENCY	E04806	116102	10678	9984	820928
7	ENCY	E04807	118004	10693	1632000	2442944
7	ENCY	E04808	115004	10803	3398912	9920
7	ENCY	E04809	118104	10693	1632000	2442944
7	ENCY	E04810	119103	10022	2444800	3253952
7	ENCY	E04811	120104	10704	3254016	4064960
7	ENCY	E04812	119003	10022	2444800	3253952
7	ENCY	E04813	117004	9629	820992	1631936
7	ENCY	E04814	120004	10704	3254016	4064960
7	ENCY	E04815	117104	9629	820992	1631936
7	ENCY	E04817	122004	11164	681728	1492672
7	ENCY	E04820	121004	10645	4065024	681664
7	ENCY	E04821	121104	10645	4065024	681664
7	ENCY	E04826	123004	10256	1492736	2303360
7	ENCY	E04827	123104	10256	1492736	2303360

7	ENCY	E04830	125104	10339	3114752	3925696
7	ENCY	E04833	124102	3755	2805312	3114688
7	ENCY	E04841	125004	10339	3114752	3925696
7	ENCY	E04842	129003	10603	2164480	2975424
7	ENCY	E04843	126004	6859	3925760	542400
7	ENCY	E04844	127004	10472	542464	1353408
7	ENCY	E04845	129103	10603	2164480	2975424
7	ENCY	E04846	163005	9443	590528	1401472
7	ENCY	E04847	127104	10472	542464	1353408
7	ENCY	E04850	136107	10594	3647296	263936
7	ENCY	E04851	137104	10180	264000	1074560
7	ENCY	E04852	138104	10844	1076352	1885696
7	ENCY	E04855	138004	10844	1076352	1885696
7	ENCY	E04856	140105	10714	2697024	3507968
7	ENCY	E04859	157104	10752	4113088	726528
7	ENCY	E04860	126004	10457	3925760	542400
7	ENCY	E04862	155104	10683	2491072	3302016
7	ENCY	E04865	111003	9225	212800	960256
7	ENCY	E04866	112106	10231	960320	1771264
7	ENCY	E04867	140005	10714	2697024	3507968
7	ENCY	E04868	178004	7272	172800	983680
7	ENCY	E04870	164006	8647	1401536	2212096
7	ENCY	E04871	130003	10262	2975488	3786368
7	ENCY	E04873	130103	10262	2975488	3786368
7	ENCY	E04876	141104	9773	3508032	124672
7	ENCY	E04877	141004	9773	3508032	124672
7	ENCY	E04879	133005	10256	1214208	2025216
7	ENCY	E04883	139104	11222	1888000	2696960
7	ENCY	E04884	139104	11222	1888000	2696960
7	ENCY	E04885	142104	9867	124736	935680
7	ENCY	E04886	143104	10908	935744	1958528
7	ENCY	E04887	142004	9867	124736	935680
7	ENCY	E04888	144104	10954	1958592	2763776
7	ENCY	E04889	143004	10908	935744	1958528
7	ENCY	E04890	145105	11184	2772992	3580544
7	ENCY	E04891	144004	10954	1958592	2763776
7	ENCY	E04892	145005	11184	2772992	3580544
7	ENCY	E04896	146005	10938	3580608	190720
7	ENCY	E04897	146105	10938	3580608	190720
7	ENCY	E04907	153104	11211	869056	1680000
7	ENCY	E04909	147104	10335	198016	1008256
7	ENCY	E04915	152003	10908	58048	868992
7	ENCY	E04920	152103	10908	58048	868992
7	ENCY	E04928	148104	10716	1008320	1819264
7	ENCY	E04929	147004	10335	198016	1008256
7	ENCY	E04930	149104	10990	1819328	2630272
7	ENCY	E04932	148004	10716	1008320	1819264
7	ENCY	E04934	149004	10990	1819328	2630272
7	ENCY	E04936	150004	10748	2630336	3441280
7	ENCY	E04937	150104	10748	2630336	3441280
7	ENCY	E04938	169004	9540	1262272	2069568
7	ENCY	E04939	154103	11071	1680064	2491008
7	ENCY	E04943	153004	11211	869056	1680000
7	ENCY	E04944	156104	11195	3302080	4113024
7	ENCY	E04947	173105	8699	312000	1122944
7	ENCY	E04948	154003	11071	1680064	2491008
7	ENCY	E04949	158104	10773	730432	1540736
7	ENCY	E04950	155004	10683	2491072	3302016
7	ENCY	E04952	156004	11195	3302080	4113024
7	ENCY	E04954	157004	10752	4113088	726528
7	ENCY	E04955	159004	11251	1540800	2351744
7	ENCY	E04966	172004	7724	3695296	311936
7	ENCY	E04967	168002	8324	455936	1262208
7	ENCY	E04968	160105	11004	2351808	3162752
7	ENCY	E04969	174004	8820	1123008	1919296
7	ENCY	E04972	158004	10773	730432	1540736

7	ENCY E04973	159104	11251	1540800	2351744
7	ENCY E04974	162104	8841	3973824	590464
7	ENCY E04975	171004	7782	2884288	3695232
7	ENCY E04976	165004	8477	2214976	3023488
7	ENCY E04977	178104	7272	172800	983680
7	ENCY E04978	162004	8841	3973824	590464
7	ENCY E04980	176104	7983	2745216	3555968
7	ENCY E04988	164106	8647	1401536	2212096
7	ENCY E04989	169104	9540	1262272	2069568
7	ENCY E04990	167004	8518	3834560	447808
7	ENCY E04993	166004	7872	3023552	3834496
7	ENCY E04994	166104	7872	3023552	3834496
7	ENCY E04995	170104	8417	2073280	2884224
7	ENCY E04997	167104	8518	3834560	447808
7	ENCY E04998	151005	11116	3441344	57984
7	ENCY E04999	170004	8417	2073280	2884224
7	ENCY E03652	173005	8699	312000	1122944
7	ENCY E03660	163105	9443	590528	1401472
7	ENCY E03662	151105	11116	3441344	57984
7	ENCY E03663	180004	8225	1794752	2603456
7	ENCY E03673	172104	7724	3695296	311936
7	ENCY E03674	173004	8699	312000	1122944
7	ENCY E03675	168102	8324	455936	1262208
7	ENCY E03676	179004	8823	983744	1794560
7	ENCY E03677	171104	7782	2884288	3695232
7	ENCY E03678	174104	8820	1123008	1919296
7	ENCY E03679	161006	10685	3162816	3973760
7	ENCY E03680	161106	10685	3162816	3973760
7	ENCY E03681	134104	10549	2025280	2836224
7	ENCY E03683	180104	8225	1794752	2603456
7	ENCY E03684	175003	7805	1935552	2735488
7	ENCY E03686	165104	8477	2214976	3023488
7	ENCY E03688	175103	7805	1935552	2735488
7	ENCY E03690	179104	8823	983744	1794560
7	ENCY E03691	182106	7756	3416768	5184
7	ENCY E03695	183106	9015	37376	843776
7	ENCY E03696	182006	7756	3416768	5184
7	ENCY E03697	181003	8719	2606592	3416704
7	ENCY E03699	183006	9015	37376	843776
7	ENCY E03700	185003	180	1698112	2310144
7	ENCY E04502	177004	6695	3556032	172672
7	ENCY E04503	177104	6695	3556032	172672
7	ENCY E04504	181103	8719	2606592	3416704
7	ENCY E04505	185103	180	1698112	2310144
7	ENCY E04508	184003	2228	844480	1611776
7	ENCY E04509	184103	2228	844480	1611776
7	TOTAL RECORDS =	3927606	RECL	4120	
	I8 BYTES, MBYTE		1.6182E+10	1.5432E+04	
7	TOTAL RECORDS (1984 ->) =		0 RECL	4120	
	I8 BYTES, MBYTE		0.0000E+00	0.0000E+00	

IMP	TYPE	VOLSER	RSEQ	NO. OF RECORDS	SPACECRAFT START	CLOCK END
8	FLUX	E02722	8	59728	0	1126912
8	FLUX	E0 757	2	21560	0	1345216
8	FLUX	E0 760	7	59438	0	1148544
8	FLUX	E04432	3	66218	0	1067584
8	FLUX	E04477	6	57274	0	3457472
8	FLUX	E04639	4	65119	0	651200
8	FLUX	E04682	9	46496	0	2069632
8	FLUX	E04700	10	49800	0	2800512
8	FLUX	E05068	12	48426	0	3152128
8	FLUX	E05111	5	60943	0	3749568
8	FLUX	E05112	13	42993	0	2591296
8	FLUX	E05337	15	29656	0	1484672
8	FLUX	E05357	11	50013	0	601600
8	FLUX	E05372	14	37844	0	2991808
8	FLUX	E05491	16	32532	0	930240
8	FLUX	E05493	17	39315	930560	375168
8	FLUX	E05494	18	31393	375488	4003264
8	FLUX	E05538	21	32734	0	14208
8	FLUX	E05607	24	43527	0	1050112
8	FLUX	E05770	22	42095	0	1038784
8	FLUX	E05906	19	24143	0	1033152
8	FLUX	E05997	23	39466	0	1334784
8	FLUX	E06036	27	47402	0	2692096
8	FLUX	E06125	25	43350	0	1013568
8	FLUX	E06266	26	47398	0	3702912
8	FLUX	E06299	29	40091	0	1062336
8	FLUX	E06461	28	43399	0	3194048
8	FLUX	E06467	32	30761	0	204096
8	FLUX	E06522	31	38296	0	4135360
8	FLUX	E06580	33	27839	0	2572352
8	FLUX	E06600	30	43702	0	3349696
8	FLUX	E06614	20	37742	0	6528
8	TOTAL RECORDS =			1380693	RECL	588
			I8 BYTES, MBYTE		8.1185E+08	7.7424E+02

IMP	TYPE	VOLSER	RSEQ	NO. OF RECORDS	SPACECRAFT START	CLOCK END
8	SMCT	E02745	10	10313	4151552	3873216
8	SMCT	E02840	5	11365	1345280	1066944
8	SMCT	E02857	6	11104	1067648	788160
8	SMCT	E02915	9	10617	234816	4150848
8	SMCT	E02927	14	10343	3041216	2762944
8	SMCT	E02946	12	10154	3596352	3318080
8	SMCT	E0 610	13	10212	3318784	3040512
8	SMCT	E0 631	17	8971	2208448	1930176
8	SMCT	E0 638	15	10302	2763648	2485312
8	SMCT	E0 710	16	10194	2486016	2207744
8	SMCT	E0 715	8	11006	512448	234112
8	SMCT	E0 741	20	9091	346816	67456
8	SMCT	E0 758	18	8020	1930880	1652608
8	SMCT	E04402	19	8435	1653312	343616
8	SMCT	E04406	30	6491	1769792	1484096
8	SMCT	E04481	26	7275	2875456	2590400
8	SMCT	E04643	33	6496	930304	652096
8	SMCT	E04691	11	9684	3873984	3595648
8	SMCT	E05005	22	8867	3984896	3703104
8	SMCT	E05168	27	7831	2601536	2318848
8	SMCT	E05170	23	8179	3707520	3429056
8	SMCT	E05176	24	9345	3429760	3151488
8	SMCT	E05203	25	8518	3152192	2873984
8	SMCT	E05216	7	11171	790016	511744

8	SMCT	E05235	28	6367	2319552	2041280
8	SMCT	E05237	4	7215	307136	1344576
8	SMCT	E05266	29	4654	2041984	1755328
8	SMCT	E05308	31	6332	1501248	1207168
8	SMCT	E05343	32	5624	1207872	929600
8	SMCT	E05430	34	8133	652800	374528
8	SMCT	E05433	35	7010	375232	96256
8	SMCT	E05510	36	4286	99840	4003200
8	SMCT	E05522	37	4338	4019776	3736320
8	SMCT	E05578	38	4601	3736896	3452992
8	SMCT	E05700	41	5243	1958400	1602176
8	SMCT	E05705	39	6288	3474176	2188224
8	SMCT	E05727	43	7482	1366144	1038144
8	SMCT	E05728	42	6747	1655104	1365440
8	SMCT	E05761	46	7022	1883776	1604544
8	SMCT	E05807	44	7219	1038848	760640
8	SMCT	E05815	45	6830	761344	1875008
8	SMCT	E05903	47	7709	1605248	1326976
8	SMCT	E05914	21	8919	68160	3984192
8	SMCT	E05928	48	7357	1327680	1050048
8	SMCT	E05967	49	7108	1050176	318080
8	SMCT	E06003	50	7670	341312	63040
8	SMCT	E06032	51	8158	63744	3979840
8	SMCT	E06037	40	7033	2202688	1919808
8	SMCT	E06082	53	8622	3702976	2969024
8	SMCT	E06098	52	7981	3980544	3702272
8	SMCT	E06202	55	7317	2692160	3470976
8	SMCT	E06208	54	7624	2969728	2691456
8	SMCT	E06258	57	7137	3194112	1333568
8	SMCT	E06272	56	7600	3471680	3193408
8	SMCT	E06313	58	6784	1352256	1061696
8	SMCT	E06361	59	7913	1062400	784128
8	SMCT	E06391	60	7092	784832	506624
8	SMCT	E06458	61	7035	507328	228352
8	SMCT	E06488	63	5910	4192064	3868288
8	SMCT	E06501	62	6224	282304	4135232
8	SMCT	E06540	65	6567	3591424	3313216
8	SMCT	E06555	64	5389	3873216	3590720
8	SMCT	E06581	66	3284	3314176	2571712
8	TOTAL RECORDS =			485808	RECL	1332
			I8 BYTES, MBYTE		6.4710E+08	6.1712E+02

IMP	TYPE	VOLSER	RSEQ	NO. OF RECORDS	SPACECRAFT START	CLOCK END
8	VLET	E02715	4	81	1345280	3771264
8	VLET	E02756	5	120	3771328	2003008
8	VLET	E02914	7	80	234816	2660864
8	VLET	E02984	10	80	3318784	1550528
8	VLET	E0 618	6	80	2003072	234752
8	VLET	E0 625	9	81	892672	3318720
8	VLET	E0 653	11	80	1550592	3976576
8	VLET	E0 662	8	80	2660928	892608
8	VLET	E0 696	18	86	747392	3152128
8	VLET	E0 726	12	101	3976640	2208384
8	VLET	E0 781	13	127	2208448	439232
8	VLET	E04407	15	89	769216	68096
8	VLET	E04420	14	96	441280	769152
8	VLET	E04460	17	81	2494272	719808
8	VLET	E04615	3	40	307136	1345216
8	VLET	E04630	16	112	68160	2494208
8	VLET	E05047	23	103	282880	2698432
8	VLET	E05114	19	84	3152192	1384000
8	VLET	E05135	20	115	1387840	3810112
8	VLET	E05202	21	103	3810176	2041920
8	VLET	E05220	22	93	2041984	261312

8	VLET	E05289	0	79	2010240	2795648
8	VLET	E05300	0	95	2402880	3322624
8	VLET	E05323	0	28	1887424	2830272
8	VLET	E05392	25	80	930304	3341120
8	VLET	E05418	26	80	3359232	1588224
8	VLET	E05479	28	80	4019776	2199872
8	VLET	E05481	27	90	1588288	4003264
8	VLET	E05486	0	28	3273024	4185472
8	VLET	E05549	29	85	2254016	463872
8	VLET	E05593	33	80	2579200	761280
8	VLET	E05609	30	80	498752	1919936
8	VLET	E05692	32	80	156224	2579136
8	VLET	E05704	31	86	1958400	150208
8	VLET	E05801	34	80	761344	378112
8	VLET	E05812	0	14	3432640	3466368
8	VLET	E05929	36	81	2818304	1050112
8	VLET	E05973	37	85	1050176	3037888
8	VLET	E05976	38	120	3064576	1276800
8	VLET	E06120	0	106	1162304	2091584
8	VLET	E06138	0	64	3334720	3894208
8	VLET	E06146	40	153	3702976	1479040
8	VLET	E06147	0	80	1799744	2543232
8	VLET	E06148	0	101	499520	1378176
8	VLET	E06155	0	28	2687808	3633984
8	VLET	E06156	0	28	4138880	849728
8	VLET	E06157	0	103	2751040	3595392
8	VLET	E06158	0	124	3280512	3854976
8	VLET	E06159	0	28	3054912	4001152
8	VLET	E06160	0	37	415232	1672000
8	VLET	E06161	0	24	1773888	2554944
8	VLET	E06169	39	196	1276864	3702912
8	VLET	E06192	42	89	770304	3194048
8	VLET	E06215	41	108	1510656	758144
8	VLET	E06264	43	157	3194112	4043520
8	VLET	E06290	0	105	1548864	2478208
8	VLET	E06291	0	182	1208000	2772800
8	VLET	E06298	0	73	700928	1240384
8	VLET	E06341	44	96	4043584	2204992
8	VLET	E06397	45	92	2317696	507264
8	VLET	E06414	46	104	507328	2933376
8	VLET	E06468	35	87	405440	2818240
8	VLET	E06469	0	272	3263616	4176064
8	VLET	E06472	24	112	2708416	930240
8	VLET	E06485	48	78	1165312	3591360
8	VLET	E06487	47	82	2933440	1165248
8	VLET	E06575	49	88	3591424	1801728
8	VLET	E06613	50	6	1859136	2572352
8	TOTAL RECORDS =			6066	RECL	7280
			I8 BYTES, MBYTE		4.4160E+07	4.2115E+01

IMP	TYPE	VOLSER	RSEQ	NO. OF RECORDS	SPACECRAFT START	CLOCK END
8	MATR	E02710	16	3302	3873984	892608
8	MATR	E02772	8	3866	2558336	3771264
8	MATR	E02813	6	3762	307136	1345216
8	MATR	E02854	20	3433	337536	1550528
8	MATR	E02864	12	3695	3216128	234752
8	MATR	E02874	9	3835	3771328	789248
8	MATR	E02910	15	3396	2660928	3873856
8	MATR	E02913	14	3538	1447872	2660864
8	MATR	E02917	11	3794	2003072	3216064
8	MATR	E0 641	19	3315	3318784	337472
8	MATR	E0 642	17	3020	892672	2105664
8	MATR	E0 669	18	3469	2105728	3318720
8	MATR	E0 671	7	4067	1345280	2558272

8	MATR	E0	676	10	3649	790016	2003008
8	MATR	E0	685	29	2546	769216	3049344
8	MATR	E0	706	23	3393	3976640	995328
8	MATR	E0	739	22	3345	2763648	3976576
8	MATR	E0	780	24	3307	995392	2208384
8	MATR	E0	788	25	2856	2208448	3421312
8	MATR	E0	793	28	2351	1653312	769152
8	MATR	E0	795	13	3636	234816	1447808
8	MATR	E04421		33	2114	2494272	3703232
8	MATR	E04442		30	2575	3049408	68096
8	MATR	E04470		45	1893	282880	1484672
8	MATR	E04484		27	1975	441280	1653248
8	MATR	E04601		26	2750	3421696	439232
8	MATR	E04610		21	3393	1550592	2763584
8	MATR	E04655		31	2454	68160	1280512
8	MATR	E04686		32	2459	1282752	2494208
8	MATR	E05004		37	2068	3152192	161088
8	MATR	E05036		35	2222	747392	1933888
8	MATR	E05056		36	2453	1943744	3152128
8	MATR	E05062		34	2072	3707520	719808
8	MATR	E05066		38	1997	191616	1384000
8	MATR	E05085		0	33	2885440	2905152
8	MATR	E05171		40	1958	2601536	3810112
8	MATR	E05177		0	688	298880	837760
8	MATR	E05178		0	996	3412160	26240
8	MATR	E05179		0	436	2602752	3147328
8	MATR	E05183		39	1575	1387840	2591296
8	MATR	E05201		42	1485	834752	2041920
8	MATR	E05209		43	1185	2041984	3249728
8	MATR	E05215		41	1885	3810176	827328
8	MATR	E05217		0	56	948800	1050176
8	MATR	E05265		44	1254	3272832	261312
8	MATR	E05283		46	1509	1501248	2698432
8	MATR	E05288		0	607	1077568	1610688
8	MATR	E05301		47	1613	2708416	3902336
8	MATR	E05309		0	80	1179648	1729088
8	MATR	E05329		48	1272	3917760	930240
8	MATR	E05331		0	594	756480	1148288
8	MATR	E05332		0	580	1681024	2161600
8	MATR	E05333		0	489	2359744	2715840
8	MATR	E05334		0	339	3033600	3303232
8	MATR	E05335		50	1794	2144448	3341120
8	MATR	E05348		49	1527	930304	2142272
8	MATR	E05359		0	454	2056384	2601536
8	MATR	E05367		0	669	837760	1376896
8	MATR	E05381		61	1964	1958400	3134208
8	MATR	E05391		0	293	2010240	2819264
8	MATR	E05404		51	2393	3359232	375168
8	MATR	E05416		53	1313	1588288	2795648
8	MATR	E05435		0	375	1344896	1882240
8	MATR	E05458		52	1923	375232	1588224
8	MATR	E05484		54	1450	2819264	4003264
8	MATR	E05492		0	965	1595328	2399424
8	MATR	E05501		0	247	1631296	1829120
8	MATR	E05521		55	1383	4019776	1033152
8	MATR	E05545		0	340	2785344	3347648
8	MATR	E05548		0	587	628992	1212864
8	MATR	E05561		0	59	3152256	3191680
8	MATR	E05570		0	2137	346880	3074368
8	MATR	E05579		57	1546	2254016	3453312
8	MATR	E05615		59	2159	498752	685504
8	MATR	E05631		60	2243	709568	1919936
8	MATR	E05641		58	1873	3474176	463872
8	MATR	E05672		64	2456	1366144	2579136
8	MATR	E05676		0	508	2010240	3075072
8	MATR	E05701		62	1740	3134272	150208

8	MATR	E05730	63	2387	156224	1366080
8	MATR	E05735	56	1006	1033216	2199872
8	MATR	E05736	67	2357	761344	3373312
8	MATR	E05764	65	2473	2579200	3735040
8	MATR	E05791	66	2411	3748288	761280
8	MATR	E05825	68	2322	3375360	378112
8	MATR	E05828	0	598	1427968	2255168
8	MATR	E05829	0	539	3183552	4083456
8	MATR	E05836	69	2260	405440	1605184
8	MATR	E05875	70	2390	1605248	2818240
8	MATR	E05905	0	141	3973056	49088
8	MATR	E05913	71	2523	2818304	4031360
8	MATR	E05941	72	2448	4031424	1050112
8	MATR	E05968	73	2266	1050176	1831872
8	MATR	E05972	74	2492	1831936	3037888
8	MATR	E05996	75	2518	3064576	63680
8	MATR	E06033	77	2275	1276864	2489856
8	MATR	E06054	76	2407	63744	1276800
8	MATR	E06067	84	2004	1981056	3194048
8	MATR	E06091	78	2650	2489920	3702912
8	MATR	E06095	0	600	397632	938368
8	MATR	E06114	0	774	1942016	2482752
8	MATR	E06121	0	712	529216	1077568
8	MATR	E06131	79	2106	3702976	232000
8	MATR	E06181	80	1981	271424	1479040
8	MATR	E06195	81	1784	1510656	2692096
8	MATR	E06206	82	1700	2692160	758144
8	MATR	E06211	83	1873	770304	1980992
8	MATR	E06260	85	1779	3194112	212864
8	MATR	E06288	86	1698	212928	4043520
8	MATR	E06289	87	1629	4043584	1062336
8	MATR	E06300	0	575	1179648	1729088
8	MATR	E06339	88	2114	1062400	2204992
8	MATR	E06366	89	2025	2317696	3488448
8	MATR	E06396	90	1880	3488512	507264
8	MATR	E06411	91	2111	507328	1720320
8	MATR	E06441	92	1779	1720384	2933376
8	MATR	E06476	95	1320	1165312	2340032
8	MATR	E06486	93	1698	2933440	4135360
8	MATR	E06493	94	1710	4192064	1165248
8	MATR	E06544	96	1795	2404224	3591360
8	MATR	E06560	98	2130	807296	1801728
8	MATR	E06578	97	1850	3591424	505920
8	MATR	E06612	99	331	1859136	2572352
8	TOTAL RECORDS =			231453	RECL	7280
			I8 BYTES, MBYTE	1.6850E+09	1.6069E+03	

IMP	TYPE	VOLSER	RSEQ	NO. OF RECORDS	SPACECRAFT START	CLOCK END
8	LOWG	E02730	10	43038	2486016	3421312
8	LOWG	E02812	5	49111	2003072	2938432
8	LOWG	E02945	6	43588	2938496	3873856
8	LOWG	E0 630	13	31817	68160	1003584
8	LOWG	E0 636	9	40208	1550592	2485952
8	LOWG	E0 681	12	33222	2262592	68096
8	LOWG	E0 701	8	40792	615104	1550528
8	LOWG	E0 769	4	57605	1067648	2003008
8	LOWG	E0 791	14	26880	1003648	1933888
8	LOWG	E04415	7	38405	3873984	615040
8	LOWG	E04609	11	36710	3421696	2251008
8	LOWG	E05021	18	22420	553728	1484672
8	LOWG	E05072	3	51467	307136	1067584
8	LOWG	E05084	15	31004	1943744	2874432
8	LOWG	E05127	16	29195	2875456	3810112
8	LOWG	E05169	17	22157	3810176	548096

8	LOWG	E05330	19	23501	1501248	2420864
8	LOWG	E05352	20	17595	2420928	3341120
8	LOWG	E05417	21	25778	3359232	96896
8	LOWG	E05523	22	13848	99840	1033152
8	LOWG	E05565	24	27365	1968704	1919936
8	LOWG	E05566	31	53778	63744	999232
8	LOWG	E05713	26	29686	2871872	3735040
8	LOWG	E05724	25	22694	1958400	2850432
8	LOWG	E05729	23	15849	1033216	1968640
8	LOWG	E05832	27	27310	3748288	1875072
8	LOWG	E05864	28	29018	1883776	2818240
8	LOWG	E05971	29	30800	2818304	3753792
8	LOWG	E06004	30	32250	3753856	63680
8	LOWG	E06145	32	37640	999296	1479040
8	LOWG	E06179	34	23417	3471680	212864
8	LOWG	E06180	33	21758	1510656	3471616
8	LOWG	E06340	35	26876	212928	3766016
8	LOWG	E06355	36	25376	3766080	507264
8	LOWG	E06413	38	20228	1442816	2340032
8	LOWG	E06477	37	23721	507328	1442752
8	LOWG	E06579	39	23239	2404224	3313792
8	LOWG	E06599	40	7784	3314176	2572352
8	TOTAL RECORDS =			1157130	RECL	356
			I8 BYTES, MBYTE		4.1194E+08	3.9285E+02

IMP	TYPE	VOLSER	RSEQ	NO. OF RECORDS	SPACECRAFT	CLOCK
					START	END
8	CNTS	E02709	33	20363	3771328	928768
8	CNTS	E02711	21	17728	307136	1484032
8	CNTS	E02729	25	20654	1345280	2697088
8	CNTS	E02736	26	20281	2697152	4048896
8	CNTS	E02739	28	20121	1214912	2558272
8	CNTS	E02742	27	20649	4048960	1206400
8	CNTS	E02755	48	18766	3077312	234752
8	CNTS	E02759	46	18695	373632	1725440
8	CNTS	E02763	31	18616	1067648	2419456
8	CNTS	E02769	43	19941	512448	1864192
8	CNTS	E02773	37	19221	790016	2129280
8	CNTS	E02777	34	19026	928832	2280640
8	CNTS	E02778	35	20174	2280704	3632448
8	CNTS	E02782	38	19259	2143744	3493632
8	CNTS	E02790	47	20191	1725504	3077248
8	CNTS	E02792	30	20206	3910976	1067584
8	CNTS	E02794	36	19824	3632512	789248
8	CNTS	E02796	39	20301	3493696	651200
8	CNTS	E02804	52	18565	96064	1447808
8	CNTS	E02805	29	19803	2558336	3901696
8	CNTS	E02807	51	19736	2938496	96000
8	CNTS	E02808	41	20362	2003072	3354816
8	CNTS	E02830	22	18285	1484096	2835776
8	CNTS	E02849	57	18534	2660928	4012672
8	CNTS	E02855	49	17771	234816	1586624
8	CNTS	E02860	42	20077	3354880	512384
8	CNTS	E02861	44	19420	1864256	3216064
8	CNTS	E02862	45	19855	3216128	373568
8	CNTS	E02886	50	19129	1586688	2938432
8	CNTS	E02893	32	20320	2419520	3771264
8	CNTS	E02908	54	19483	2799680	4151488
8	CNTS	E02912	55	18030	4151552	1308992
8	CNTS	E02918	67	15891	3596352	753856
8	CNTS	E02924	56	17542	1309056	2660864
8	CNTS	E02926	53	18140	1447872	2799616
8	CNTS	E02933	65	14562	892672	2244480
8	CNTS	E02937	63	18289	2383296	3735104
8	CNTS	E02938	59	17226	1170240	2522048

8	CNTS	E02939	68	16454	753920	2105664
8	CNTS	E02952	60	18568	2522112	3873856
8	CNTS	E02955	62	16949	1031488	2383232
8	CNTS	E02963	61	17279	3873984	1031424
8	CNTS	E02968	58	17386	4012736	1170176
8	CNTS	E02975	64	15615	3735168	892608
8	CNTS	E02988	69	18736	2105728	3457472
8	CNTS	E02989	66	16627	2244544	3596288
8	CNTS	E0 606	74	17822	476288	1828096
8	CNTS	E0 607	72	18435	1966912	3318720
8	CNTS	E0 609	71	17756	615104	1966848
8	CNTS	E0 616	73	17374	3318784	476224
8	CNTS	E0 620	70	18159	3460800	615040
8	CNTS	E0 633	75	18210	1828160	3179904
8	CNTS	E0 644	76	16443	3179968	337472
8	CNTS	E0 647	80	17846	198720	1550528
8	CNTS	E0 652	78	18172	1689344	3041152
8	CNTS	E0 658	81	17866	1550592	2902336
8	CNTS	E0 660	118	15301	215232	1548352
8	CNTS	E0 675	79	18414	3041216	198656
8	CNTS	E0 697	82	16977	2902400	59904
8	CNTS	E0 700	83	18301	59968	1411712
8	CNTS	E0 720	97	16206	2208448	3538752
8	CNTS	E0 721	89	17651	3976640	1134144
8	CNTS	E0 727	85	18850	2763648	4112832
8	CNTS	E0 733	88	16650	2624832	3976576
8	CNTS	E0 749	90	17379	1134208	2485952
8	CNTS	E0 752	91	17801	2486016	3837824
8	CNTS	E0 755	24	20379	4187776	1345216
8	CNTS	E0 759	23	20054	2836480	4187712
8	CNTS	E0 764	93	16920	995392	2347200
8	CNTS	E0 775	94	16271	2347264	3697664
8	CNTS	E0 776	127	14380	3984896	1142336
8	CNTS	E0 792	96	18568	856640	2208384
8	CNTS	E04404	103	14282	1930880	3282688
8	CNTS	E04405	99	14997	717824	2069632
8	CNTS	E04422	119	16181	1560640	2907712
8	CNTS	E04429	129	15205	2494272	3846016
8	CNTS	E04454	128	15528	1142400	2494208
8	CNTS	E04458	86	18727	4115584	1272896
8	CNTS	E04459	140	14592	587328	1933888
8	CNTS	E04463	131	14413	1003648	2355456
8	CNTS	E04464	84	17980	1411776	2763584
8	CNTS	E04465	102	23123	579072	1930816
8	CNTS	E04472	104	14678	3282752	439232
8	CNTS	E04475	107	11491	3144768	300800
8	CNTS	E04476	87	17904	1272960	2624768
8	CNTS	E04479	105	12554	441280	1791808
8	CNTS	E04480	117	14286	3049408	197184
8	CNTS	E04483	101	13881	3421696	579008
8	CNTS	E04488	108	13103	302912	1653248
8	CNTS	E04489	92	18279	3837888	995328
8	CNTS	E04492	109	14156	1653312	901120
8	CNTS	E04494	110	13248	917568	2251008
8	CNTS	E04500	106	11743	1792320	3142080
8	CNTS	E04603	98	15008	3563840	717760
8	CNTS	E04606	113	13803	769216	2121024
8	CNTS	E04618	112	13856	3611712	769152
8	CNTS	E04626	114	14635	2121088	344064
8	CNTS	E04628	115	15371	346816	1697472
8	CNTS	E04629	77	17863	337536	1689280
8	CNTS	E04644	116	16036	1697536	3049344
8	CNTS	E04653	121	14285	68160	1419968
8	CNTS	E04660	122	15144	1420032	2765888
8	CNTS	E04661	111	13625	2262592	3611648
8	CNTS	E04666	123	14493	2776384	4123648

8	CNTS	E04672	120	15796	2921856	68096
8	CNTS	E04676	124	13804	4123712	1280512
8	CNTS	E04683	40	19236	651264	2003008
8	CNTS	E04684	100	14128	2069696	3421312
8	CNTS	E04685	125	16444	1282752	2632960
8	CNTS	E04696	126	15427	2633024	3984832
8	CNTS	E04697	130	11816	3846080	1003584
8	CNTS	E04699	145	16077	3152192	309696
8	CNTS	E05009	132	14566	2355520	3703232
8	CNTS	E05012	177	11505	282880	1625600
8	CNTS	E05017	178	13658	1625664	2973184
8	CNTS	E05039	137	13202	747392	2077888
8	CNTS	E05041	136	12748	3568576	719808
8	CNTS	E05045	138	14727	2077952	3429696
8	CNTS	E05049	139	15650	3429760	587264
8	CNTS	E05053	134	14733	864896	2207040
8	CNTS	E05054	133	12854	3707520	864832
8	CNTS	E05055	135	10964	2218368	3568512
8	CNTS	E05064	147	11828	1662144	3013376
8	CNTS	E05074	141	14976	1943744	3290944
8	CNTS	E05076	142	17272	3291008	442112
8	CNTS	E05078	95	18193	3699072	856576
8	CNTS	E05080	143	15652	465920	1800320
8	CNTS	E05083	144	16008	1800384	3152128
8	CNTS	E05090	148	12999	3013440	161088
8	CNTS	E05092	149	12311	191616	1522752
8	CNTS	E05105	146	14282	319488	1660224
8	CNTS	E05106	150	13601	1522880	2874432
8	CNTS	E05108	151	14640	2875456	32064
8	CNTS	E05110	152	12565	32448	1384000
8	CNTS	E05126	153	13905	1387840	2735808
8	CNTS	E05131	155	7998	4101312	1245056
8	CNTS	E05133	154	9345	2737408	4081728
8	CNTS	E05155	156	8813	1245248	2591296
8	CNTS	E05157	157	9754	2601536	3947968
8	CNTS	E05159	158	12548	3955264	1106432
8	CNTS	E05164	159	12774	1106496	2458304
8	CNTS	E05167	160	13819	2458368	3810112
8	CNTS	E05174	161	13407	3810176	963008
8	CNTS	E05196	162	12538	986432	2319488
8	CNTS	E05198	163	11963	2319552	3670656
8	CNTS	E05200	164	10047	3671808	827328
8	CNTS	E05205	165	11612	834752	2180736
8	CNTS	E05207	166	9635	2192640	3532544
8	CNTS	E05214	169	6983	2041984	3390144
8	CNTS	E05227	167	6220	3532608	681792
8	CNTS	E05229	168	7119	700224	2041920
8	CNTS	E05232	170	5390	3445312	548096
8	CNTS	E05233	219	6042	2574080	3875520
8	CNTS	E05240	171	6459	553728	1893568
8	CNTS	E05244	172	7362	1914880	3249728
8	CNTS	E05245	179	9568	2977536	134720
8	CNTS	E05260	173	8110	3272832	408640
8	CNTS	E05262	174	5853	422592	1755776
8	CNTS	E05264	175	7113	1769792	3103936
8	CNTS	E05272	176	8663	3127424	261312
8	CNTS	E05274	180	11447	136384	1484672
8	CNTS	E05278	181	10705	1501248	2838720
8	CNTS	E05285	182	9641	2838784	4183168
8	CNTS	E05295	183	9944	13376	1341952
8	CNTS	E05298	187	10344	1207872	2558272
8	CNTS	E05307	184	9899	1356672	2698432
8	CNTS	E05313	185	9073	2708416	4043200
8	CNTS	E05315	186	11124	4052224	1207808
8	CNTS	E05320	188	10961	2561536	3902336
8	CNTS	E05327	189	10511	3917760	1065472

8	CNTS	E05341	191	5516	2420928	3772736
8	CNTS	E05345	190	6992	1071552	2420864
8	CNTS	E05347	192	8525	3772800	930240
8	CNTS	E05356	194	9123	2282176	3566592
8	CNTS	E05365	193	8847	930304	2282112
8	CNTS	E05379	205	12076	375232	1726976
8	CNTS	E05380	195	12006	3640000	791488
8	CNTS	E05384	196	10310	791552	2142272
8	CNTS	E05390	197	9145	2144448	3493568
8	CNTS	E05399	198	12780	3495488	652672
8	CNTS	E05403	199	11845	652800	2004544
8	CNTS	E05409	200	9978	2004608	3341120
8	CNTS	E05415	201	13982	3359232	501952
8	CNTS	E05424	202	15874	513984	1865792
8	CNTS	E05426	203	14986	1865856	3217600
8	CNTS	E05439	206	13184	1727040	3078848
8	CNTS	E05440	207	11748	3078912	236416
8	CNTS	E05448	208	8828	236480	1588224
8	CNTS	E05457	209	11728	1588288	2940096
8	CNTS	E05462	210	11114	2940160	96896
8	CNTS	E05470	211	4498	99840	1295040
8	CNTS	E05476	213	8658	2819264	4153152
8	CNTS	E05478	212	2486	1575872	2795648
8	CNTS	E05496	214	6146	4153216	1295488
8	CNTS	E05500	215	9365	1332416	2661888
8	CNTS	E05506	216	10598	2672576	4003264
8	CNTS	E05509	217	10403	4019776	1171200
8	CNTS	E05519	218	7920	1182080	2515008
8	CNTS	E05531	230	9866	617344	1968640
8	CNTS	E05533	220	7400	3875712	1033152
8	CNTS	E05536	221	5756	1033216	2384960
8	CNTS	E05542	222	4431	2385024	3736832
8	CNTS	E05547	223	5312	3736896	886656
8	CNTS	E05558	224	6847	1018624	2199872
8	CNTS	E05564	225	6146	2254016	3598080
8	CNTS	E05572	236	12516	3591808	685504
8	CNTS	E05589	228	9804	2107520	3453312
8	CNTS	E05590	229	10775	3474176	589824
8	CNTS	E05599	235	13678	2202688	3546624
8	CNTS	E05611	231	11538	1968704	3320512
8	CNTS	E05613	232	10107	3320576	463872
8	CNTS	E05618	234	10311	855488	2188352
8	CNTS	E05620	251	11178	2871872	14208
8	CNTS	E05622	233	10970	498752	824384
8	CNTS	E05633	241	8950	1958400	3273024
8	CNTS	E05638	237	11734	709568	2059904
8	CNTS	E05640	238	11423	2059968	3392000
8	CNTS	E05646	239	11598	3423744	569344
8	CNTS	E05657	240	12185	569408	1919936
8	CNTS	E05687	250	12636	1553216	2850432
8	CNTS	E05689	244	11929	1807296	3134208
8	CNTS	E05691	245	7007	3134272	289152
8	CNTS	E05693	242	8899	3273088	365824
8	CNTS	E05702	247	9341	1655104	2995456
8	CNTS	E05703	258	12150	3958592	1038784
8	CNTS	E05707	248	11201	2995520	150208
8	CNTS	E05723	253	13263	1366144	2717888
8	CNTS	E05726	246	7191	328192	1602432
8	CNTS	E05741	254	13178	2717952	4069760
8	CNTS	E05751	255	12496	4069824	1227328
8	CNTS	E05755	256	13318	1227392	2579136
8	CNTS	E05760	257	14629	2579200	3926016
8	CNTS	E05766	243	9934	433088	1757376
8	CNTS	E05783	259	13798	1038848	2390656
8	CNTS	E05785	263	12008	2251968	3602752
8	CNTS	E05787	260	10893	2390720	3735040

8	CNTS	E05789	261	12275	3748288	900032
8	CNTS	E05794	262	13474	900096	2251904
8	CNTS	E05795	264	12611	3606912	761280
8	CNTS	E05797	252	13842	14272	1366080
8	CNTS	E05808	268	11979	2021568	3373312
8	CNTS	E05819	266	13091	2114560	669632
8	CNTS	E05821	267	11527	669696	2021504
8	CNTS	E05827	265	11872	761344	2084160
8	CNTS	E05839	270	9175	592704	1875072
8	CNTS	E05847	271	12649	1883776	3234496
8	CNTS	E05853	272	13538	3234624	378112
8	CNTS	E05860	273	12956	405440	1743936
8	CNTS	E05867	274	11310	1744000	3095808
8	CNTS	E05869	277	13013	1605248	2936192
8	CNTS	E05871	269	13940	3375360	530880
8	CNTS	E05883	275	9669	3095872	253312
8	CNTS	E05886	281	14089	2818304	4169984
8	CNTS	E05888	278	13587	2960384	114560
8	CNTS	E05896	279	13464	114624	1461952
8	CNTS	E05897	276	13467	253376	1605184
8	CNTS	E05919	283	13993	1327680	2679488
8	CNTS	E05923	282	13954	4170176	1327616
8	CNTS	E05934	284	12379	2679552	4031360
8	CNTS	E05938	285	12624	4031424	1188864
8	CNTS	E05940	286	13793	1188928	2540736
8	CNTS	E05948	287	12548	2540800	3892544
8	CNTS	E05960	288	12559	3892608	1050112
8	CNTS	E05964	290	11145	2401984	3753792
8	CNTS	E05966	289	12433	1050176	2401920
8	CNTS	E05970	292	12639	480064	1831872
8	CNTS	E05974	204	15068	3217664	375168
8	CNTS	E05982	291	12013	3753856	480000
8	CNTS	E05984	293	14114	1831936	3183680
8	CNTS	E05985	294	12844	3183744	318720
8	CNTS	E05993	295	13115	341312	1693056
8	CNTS	E05995	296	12547	1693120	3037888
8	CNTS	E06000	297	14226	3064576	202496
8	CNTS	E06008	298	14053	202560	1554304
8	CNTS	E06014	300	13965	2906240	63680
8	CNTS	E06016	299	13794	1554368	2906176
8	CNTS	E06018	280	13484	1490176	2818240
8	CNTS	E06020	227	9019	760640	2107456
8	CNTS	E06031	301	13326	63744	1400640
8	CNTS	E06035	302	13097	1437952	2767424
8	CNTS	E06041	303	15826	2767488	4119232
8	CNTS	E06051	304	14999	4119296	1276800
8	CNTS	E06053	305	15145	1276864	2628608
8	CNTS	E06057	249	12386	156224	1498944
8	CNTS	E06060	306	14345	2628672	3980480
8	CNTS	E06064	307	13898	3980544	1137984
8	CNTS	E06074	308	12513	1138048	2489856
8	CNTS	E06078	226	8720	3598144	752896
8	CNTS	E06081	309	14471	2489920	3841664
8	CNTS	E06096	310	15551	3841728	999232
8	CNTS	E06100	311	14023	999296	2342208
8	CNTS	E06102	312	14506	2358784	3702912
8	CNTS	E06108	315	15513	2212352	3564160
8	CNTS	E06112	316	12620	3564224	232000
8	CNTS	E06124	314	15236	860544	2212288
8	CNTS	E06130	313	17620	3702976	860480
8	CNTS	E06134	317	13946	271424	1617792
8	CNTS	E06137	318	15521	1617856	2969664
8	CNTS	E06142	319	15197	2969728	127168
8	CNTS	E06163	321	14030	1510656	2798272
8	CNTS	E06171	320	12958	127232	1479040
8	CNTS	E06176	322	12164	2833088	4182720

8	CNTS	E06184	323	11535	4182784	1340288
8	CNTS	E06189	324	13937	1340352	2692096
8	CNTS	E06199	326	12215	906752	2214208
8	CNTS	E06200	325	10849	2692160	906688
8	CNTS	E06204	327	14110	2274304	3610368
8	CNTS	E06216	330	15464	2123072	3471616
8	CNTS	E06226	331	11311	3471680	629120
8	CNTS	E06237	328	12602	3610432	758144
8	CNTS	E06239	332	13260	629184	1980992
8	CNTS	E06244	333	14269	1981056	3332800
8	CNTS	E06247	329	12062	770304	2114880
8	CNTS	E06251	334	13312	3332864	490368
8	CNTS	E06256	336	12136	1886784	3194048
8	CNTS	E06262	335	14195	490432	1823296
8	CNTS	E06265	339	12336	1729088	3055296
8	CNTS	E06277	338	12308	351680	1691328
8	CNTS	E06283	337	11950	3194112	351616
8	CNTS	E06287	340	10724	3055360	212864
8	CNTS	E06294	341	14345	212928	1564672
8	CNTS	E06297	342	10105	1564736	1334208
8	CNTS	E06304	343	9839	1352256	2667328
8	CNTS	E06310	344	12334	2712512	4043520
8	CNTS	E06324	346	13896	1201152	2552256
8	CNTS	E06326	345	9762	4043584	1201088
8	CNTS	E06328	347	13381	2590464	3904768
8	CNTS	E06332	348	11475	3904832	1062336
8	CNTS	E06344	349	16628	1062400	2414144
8	CNTS	E06352	351	11719	3766080	923520
8	CNTS	E06354	352	13796	923584	2204992
8	CNTS	E06357	350	15422	2414208	3766016
8	CNTS	E06360	353	13031	2317696	3597760
8	CNTS	E06371	354	12814	3628288	784768
8	CNTS	E06373	355	13358	784832	2104128
8	CNTS	E06380	356	13983	2171136	3488448
8	CNTS	E06390	359	11058	2006848	3349696
8	CNTS	E06400	358	13816	669056	1978048
8	CNTS	E06402	357	11254	3488512	628352
8	CNTS	E06404	360	10299	3349760	507264
8	CNTS	E06408	361	13902	507328	1859072
8	CNTS	E06421	362	11675	1859136	3210944
8	CNTS	E06425	363	13974	3211008	358464
8	CNTS	E06429	365	10242	1720384	3072128
8	CNTS	E06437	364	12597	368704	1720320
8	CNTS	E06440	366	10687	3072192	228992
8	CNTS	E06445	367	10792	282304	1570816
8	CNTS	E06452	368	11908	1583744	2933376
8	CNTS	E06463	369	8589	2933440	4992
8	CNTS	E06475	371	8157	1442816	2794624
8	CNTS	E06480	374	12111	1304768	2655872
8	CNTS	E06484	370	11220	130368	1442752
8	CNTS	E06494	376	8390	4007744	1165248
8	CNTS	E06500	372	12998	2794688	4135360
8	CNTS	E06504	378	9870	2543360	3868800
8	CNTS	E06512	377	7911	1165312	2487488
8	CNTS	E06514	379	6218	3873216	1025536
8	CNTS	E06527	373	9643	4192064	1302976
8	CNTS	E06532	380	6957	1052544	2340032
8	CNTS	E06536	384	8938	2295808	3591360
8	CNTS	E06538	381	12305	2404224	3730176
8	CNTS	E06543	382	9085	3730240	887680
8	CNTS	E06548	383	10831	887744	2237632
8	CNTS	E06562	375	11325	2655936	4007680
8	CNTS	E06568	385	7780	3591424	748928
8	CNTS	E06572	386	12545	748992	2094720
8	CNTS	E06585	387	12234	2115072	3452608
8	CNTS	E06594	391	12427	3314176	468288

8	CNTS	E06596	389	11240	807296	1952192
8	CNTS	E06597	390	13580	1996608	3313792
8	CNTS	E06601	392	14418	494272	1801728
8	CNTS	E06603	388	10707	3452672	505920
8	CNTS	E06611	393	8056	1859136	2572352
8	TOTAL RECORDS =			4968363	RECL	1188
			I8	BYTES, MBYTE	5.9024E+09	5.6290E+03

IMP	TYPE	VOLSER	RSEQ	NO. OF RECORDS	SPACECRAFT	CLOCK
					START	END
8	PHAS	E02714	106	11743	1792320	3142080
8	PHAS	E02731	45	19855	3216128	373568
8	PHAS	E02744	69	18736	2105728	3457472
8	PHAS	E02750	56	17537	1309056	2660864
8	PHAS	E02751	52	18565	96064	1447808
8	PHAS	E02754	40	19236	651264	2003008
8	PHAS	E02762	26	20281	2697152	4048896
8	PHAS	E02766	30	20206	3910976	1067584
8	PHAS	E02771	22	18318	1484096	2835776
8	PHAS	E02785	37	19221	790016	2129280
8	PHAS	E02791	48	18765	3077312	234752
8	PHAS	E02801	31	18616	1067648	2419456
8	PHAS	E02802	33	20363	3771328	928768
8	PHAS	E02803	36	19824	3632512	789248
8	PHAS	E02806	46	18695	373632	1725440
8	PHAS	E02814	25	20654	1345280	2697088
8	PHAS	E02816	21	17728	307136	1484032
8	PHAS	E02817	38	19259	2143744	3493632
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8	PHAS	E06602	388	10707	3452672	505920
8	PHAS	E06608	393	8056	1859136	2572352
8	TOTAL RECORDS =		4929267	RECL	1552	
		I8 BYTES, MBYTE		7.6502E+09	7.2958E+03	

IMP	TYPE	VOLSER	RSEQ	NO. OF RECORDS	SPACECRAFT START	CLOCK END
8	ENCY	E02701	34102	5437	307136	672960
8	ENCY	E02702	39005	12152	3917440	534144
8	ENCY	E02703	35003	12291	673024	1484032
8	ENCY	E02704	35103	12291	673024	1484032
8	ENCY	E02705	62104	11024	1604800	2412160
8	ENCY	E02706	80107	10636	3618048	234752

8	ENCY	E02707	81005	10559	234816	1045888
8	ENCY	E02708	38104	11881	3106304	3917376
8	ENCY	E02712	34002	5437	307136	672960
8	ENCY	E02713	41104	12409	1345280	2156352
8	ENCY	E02716	46102	12078	1206464	2017536
8	ENCY	E02717	41004	12409	1345280	2156352
8	ENCY	E02718	42003	12253	2156416	2967424
8	ENCY	E02719	42103	12253	2156416	2967424
8	ENCY	E02720	43003	12188	2967488	3778560
8	ENCY	E02721	43103	12188	2967488	3778560
8	ENCY	E02723	40005	12347	534208	1345216
8	ENCY	E02724	45104	12373	395392	1206400
8	ENCY	E02725	47104	11872	2017600	2828608
8	ENCY	E02726	44002	12361	3778624	395328
8	ENCY	E02727	44102	12361	3778624	395328
8	ENCY	E02728	53005	12257	2689856	3500928
8	ENCY	E02732	38104	11881	3106304	3917376
8	ENCY	E02733	46002	12078	1206464	2017536
8	ENCY	E02734	53105	12257	2689856	3500928
8	ENCY	E02735	49103	12013	3639808	256512
8	ENCY	E02737	81105	10559	234816	1045888
8	ENCY	E02738	54004	12142	3500992	117696
8	ENCY	E02740	36004	11213	1484096	2295168
8	ENCY	E02741	51008	10950	1067648	1878720
8	ENCY	E02743	49003	12013	3639808	256512
8	ENCY	E02746	45004	12373	395392	1206400
8	ENCY	E02747	80007	10636	3618048	234752
8	ENCY	E02748	55004	12270	117760	928768
8	ENCY	E02749	47004	11872	2017600	2828608
8	ENCY	E02752	55104	12270	117760	928768
8	ENCY	E02753	51108	10950	1067648	1878720
8	ENCY	E02757	54104	12142	3500992	117696
8	ENCY	E02758	56104	10783	928832	1739904
8	ENCY	E02760	36104	11213	1484096	2295168
8	ENCY	E02761	57004	12018	1739968	2550976
8	ENCY	E02764	56004	10783	928832	1739904
8	ENCY	E02765	59005	12172	3362176	4173184
8	ENCY	E02767	58005	12262	2551040	3362112
8	ENCY	E02768	59105	12172	3362176	4173184
8	ENCY	E02770	58105	12262	2551040	3362112
8	ENCY	E02774	57104	12018	1739968	2550976
8	ENCY	E02775	60005	11789	4173248	789248
8	ENCY	E02776	62004	11024	1604800	2412160
8	ENCY	E02779	65006	12131	4034688	651200
8	ENCY	E02780	63004	11457	2412224	3223296
8	ENCY	E02781	52005	11680	1878784	2689792
8	ENCY	E02783	61004	11894	790016	1592320
8	ENCY	E02784	61104	11894	790016	1592320
8	ENCY	E02786	60105	11789	4173248	789248
8	ENCY	E02787	63104	11457	2412224	3223296
8	ENCY	E02788	64104	12275	3223360	4029312
8	ENCY	E02789	114104	10270	1835392	2646400
8	ENCY	E02793	64004	12275	3223360	4029312
8	ENCY	E02795	67104	11734	1462336	2273408
8	ENCY	E02797	48106	12215	2828672	3639744
8	ENCY	E02798	48106	12215	2828672	3639744
8	ENCY	E02799	84006	11580	2668160	3479168
8	ENCY	E02800	65106	12131	4034688	651200
8	ENCY	E02809	71104	12115	512448	1323456
8	ENCY	E02810	72102	11843	1323520	2134592
8	ENCY	E02811	69105	11737	3084544	3895552
8	ENCY	E02815	40005	12347	534208	1345216
8	ENCY	E02818	66006	11645	651264	1462272
8	ENCY	E02819	66106	11645	651264	1462272
8	ENCY	E02820	73104	11965	2134656	2945664
8	ENCY	E02821	84106	11580	2668160	3479168

8	ENCY	E02823	76005	11301	373632	1184704
8	ENCY	E02826	72002	11843	1323520	2134592
8	ENCY	E02827	74004	11409	2945728	3756800
8	ENCY	E02829	71004	12115	512448	1323456
8	ENCY	E02834	69005	11737	3084544	3895552
8	ENCY	E02836	140005	10941	1952512	2763584
8	ENCY	E02837	70002	12292	3895616	512384
8	ENCY	E02838	70102	12292	3895616	512384
8	ENCY	E02839	76105	11300	373632	1184704
8	ENCY	E02841	92005	11121	768320	1579392
8	ENCY	E02842	90006	11339	3340416	4151488
8	ENCY	E02843	78006	11938	1995840	2806912
8	ENCY	E02846	75004	11875	3756864	373568
8	ENCY	E02847	75104	11875	3756864	373568
8	ENCY	E02850	152105	11458	3298560	4108160
8	ENCY	E02851	79104	12253	2806976	3617984
8	ENCY	E02856	191004	9244	346816	1156160
8	ENCY	E02858	73004	11965	2134656	2945664
8	ENCY	E02863	74104	11409	2945728	3756800
8	ENCY	E02865	88004	10747	1718208	2529280
8	ENCY	E02869	85005	11506	3479232	96000
8	ENCY	E02870	77005	11527	1184768	1995776
8	ENCY	E02871	77105	11527	1184768	1995776
8	ENCY	E02872	85105	11506	3479232	96000
8	ENCY	E02873	50008	12084	256576	1067584
8	ENCY	E02875	50108	12084	256576	1067584
8	ENCY	E02876	196104	9293	215232	1017920
8	ENCY	E02878	52105	11680	1878784	2689792
8	ENCY	E02879	37104	11125	2295232	3106240
8	ENCY	E02880	78106	11938	1995840	2806912
8	ENCY	E02881	79004	12253	2806976	3617984
8	ENCY	E02882	91004	10915	4151552	768256
8	ENCY	E02883	68004	12267	2273472	3084480
8	ENCY	E02884	68104	12267	2273472	3084480
8	ENCY	E02887	87005	11363	907136	1718144
8	ENCY	E02888	87105	11363	907136	1718144
8	ENCY	E02889	82111	11381	1045952	1856960
8	ENCY	E02890	82011	11381	1045952	1856960
8	ENCY	E02891	83005	11610	1857024	2668096
8	ENCY	E02892	90106	11339	3340416	4151488
8	ENCY	E02895	88104	10747	1718208	2529280
8	ENCY	E02896	89104	11643	2529344	3340352
8	ENCY	E02897	89104	11643	2529344	3340352
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8	ENCY	E02899	91104	10915	4151552	768256
8	ENCY	E02900	245004	7857	2202944	3013376
8	ENCY	E02902	86104	11096	96064	907072
8	ENCY	E02903	86104	11096	96064	907072
8	ENCY	E02904	97108	10536	631296	1430400
8	ENCY	E02905	197004	9782	1018240	1829120
8	ENCY	E02906	92105	11121	768320	1579392
8	ENCY	E02909	285006	3729	1113664	1893568
8	ENCY	E02916	148004	10247	52736	863168
8	ENCY	E02919	111004	9733	3596352	213120
8	ENCY	E02920	94004	10848	2390528	3201600
8	ENCY	E02921	98004	10161	1450176	2249408
8	ENCY	E02922	95004	10382	3201664	4012672
8	ENCY	E02923	108104	8595	1171904	1972032
8	ENCY	E02925	95104	10382	3201664	4012672
8	ENCY	E02928	109105	9180	1974592	2783552
8	ENCY	E02929	110104	9600	2785280	3596288
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8	ENCY	E02931	94104	10848	2390528	3201600
8	ENCY	E02932	93004	10840	1579456	2390464
8	ENCY	E02934	93104	10840	1579456	2390464
8	ENCY	E02935	100106	10614	3062848	3873856

8	ENCY	E02936	100106	10614	3062848	3873856
8	ENCY	E02941	99005	11194	2252864	3062784
8	ENCY	E02942	96005	10675	4012736	626880
8	ENCY	E02943	97008	10536	631296	1430400
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8	ENCY	E02950	102104	10817	491072	1301760
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8	ENCY	E02956	103003	9936	1301824	2112896
8	ENCY	E02957	108004	8595	1171904	1972032
8	ENCY	E02958	122105	10801	4129856	746624
8	ENCY	E02959	110004	9600	2785280	3596288
8	ENCY	E02961	127105	9995	3992832	607296
8	ENCY	E02964	102004	10817	491072	1301760
8	ENCY	E02965	104104	11042	2112960	2918080
8	ENCY	E02966	107004	10017	351936	1150400
8	ENCY	E02967	106005	9412	3735168	351872
8	ENCY	E02969	106105	9412	3735168	351872
8	ENCY	E02970	103103	9936	1301824	2112896
8	ENCY	E02971	112104	10055	213184	1024192
8	ENCY	E02972	105005	10436	2927744	3735104
8	ENCY	E02973	105105	10436	2927744	3735104
8	ENCY	E02976	107104	10017	351936	1150400
8	ENCY	E02977	113104	10208	1024256	1835328
8	ENCY	E02978	114004	10270	1835392	2646400
8	ENCY	E02979	113004	10208	1024256	1835328
8	ENCY	E02981	294104	5910	4736	814528
8	ENCY	E02982	134004	10949	1280192	2091264
8	ENCY	E02985	269005	8030	697344	1508416
8	ENCY	E02986	111104	9733	3596352	213120
8	ENCY	E02987	115106	10818	2646464	3457472
8	ENCY	E02990	197104	9782	1018240	1829120
8	ENCY	E02991	117104	11084	74368	885376
8	ENCY	E02992	117004	11084	74368	885376
8	ENCY	E02994	118004	10599	885440	1696512
8	ENCY	E02995	198104	9400	1829184	2640128
8	ENCY	E02996	116004	11192	3460800	74304
8	ENCY	E02998	120004	10484	2507648	3318720
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8	ENCY	E03000	119004	10991	1696576	2507584
8	ENCY	E0 601	115006	10818	2646464	3457472
8	ENCY	E0 602	116104	11192	3460800	74304
8	ENCY	E0 603	129005	10945	1419008	2230016
8	ENCY	E0 604	120104	10484	2507648	3318720
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8	ENCY	E0 611	122005	10801	4129856	746624
8	ENCY	E0 612	126104	10240	3179968	3990272
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8	ENCY	E0 614	124104	10698	1557760	2368832
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8	ENCY	E0 621	121104	10357	3318784	4129792
8	ENCY	E0 622	196004	9293	215232	1017920
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8	ENCY	E0 627	125104	10592	2368896	3179904
8	ENCY	E0 629	126004	10240	3179968	3990272
8	ENCY	E0 632	134104	10949	1280192	2091264
8	ENCY	E0 635	127005	9995	3992832	607296
8	ENCY	E0 637	131105	11232	3041216	3852224
8	ENCY	E0 640	135004	10291	2091328	2902336
8	ENCY	E0 645	128004	10877	608512	1418944
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8	ENCY	E0 648	129105	10945	1419008	2230016
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8	ENCY	E0	650	130106	11089	2230080	3041152
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8	ENCY	E0	663	136104	10536	2902400	3713472
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8	ENCY	E0	665	133004	10825	469184	1280128
8	ENCY	E0	666	132004	10829	3852288	469056
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8	ENCY	E0	670	137003	10419	3713536	330240
8	ENCY	E0	672	140105	10941	1952512	2763584
8	ENCY	E0	673	248004	7163	441344	1252416
8	ENCY	E0	678	139104	10687	1141440	1952448
8	ENCY	E0	679	211004	8217	3984896	601600
8	ENCY	E0	680	294004	5910	4736	814528
8	ENCY	E0	682	137103	10419	3713536	330240
8	ENCY	E0	683	211104	8217	3984896	601600
8	ENCY	E0	684	138104	10675	330304	1141376
8	ENCY	E0	686	136004	10536	2902400	3713472
8	ENCY	E0	687	138004	10675	330304	1141376
8	ENCY	E0	689	139004	10687	1141440	1952448
8	ENCY	E0	690	141004	11426	2763648	3574656
8	ENCY	E0	692	153105	10444	4108224	724992
8	ENCY	E0	693	182004	7717	370880	1178304
8	ENCY	E0	694	179004	8867	31104	829376
8	ENCY	E0	698	199105	9323	2640960	3451328
8	ENCY	E0	702	142004	11105	3574720	191424
8	ENCY	E0	703	179104	8867	31104	829376
8	ENCY	E0	707	142104	11105	3574720	191424
8	ENCY	E0	708	143003	11151	191552	1001216
8	ENCY	E0	709	143103	11151	191552	1001216
8	ENCY	E0	711	141104	11426	2763648	3574656
8	ENCY	E0	712	145004	10561	1813696	2624768
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8	ENCY	E0	714	149004	10410	866112	1674880
8	ENCY	E0	716	144004	11238	1003520	1813632
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8	ENCY	E0	718	151002	10683	2486016	3296320
8	ENCY	E0	723	216004	7918	3846080	462848
8	ENCY	E0	728	154104	10713	725056	1536064
8	ENCY	E0	729	240004	10008	2341120	3152128
8	ENCY	E0	730	150104	10639	1674944	2485952
8	ENCY	E0	731	151102	10683	2486016	3296320
8	ENCY	E0	734	148104	10247	52736	863168
8	ENCY	E0	737	149004	10410	866112	1674880
8	ENCY	E0	738	147004	9672	3453376	52672
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8	ENCY	E0	743	154004	10713	725056	1536064
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8	ENCY	E0	746	152005	11458	3298560	4108160
8	ENCY	E0	747	157004	10254	3158336	3969408
8	ENCY	E0	753	146006	10848	2624832	3435840
8	ENCY	E0	754	146006	10848	2624832	3435840
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8	ENCY	E0	761	157104	10254	3158336	3969408
8	ENCY	E0	763	156004	9648	2347264	3158272
8	ENCY	E0	765	155004	10125	1536128	2347200
8	ENCY	E0	766	155104	10125	1536128	2347200
8	ENCY	E0	767	161004	9637	2208448	3019264
8	ENCY	E0	768	159005	11353	586240	1397312
8	ENCY	E0	770	158005	10507	3969472	586176
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8	ENCY	E0	772	162004	9093	3019648	3830592
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8	ENCY	E0	782	170004	9087	1119808	1930816
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8	ENCY	E0	786	162104	9093	3019648	3830592
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8	ENCY	E0	798	225004	6304	2757440	3568512
8	ENCY	E0	799	168004	7985	3691904	303040
8	ENCY	E0	800	183104	8703	1178368	1989440
8	ENCY	E04408		167003	7695	2880768	3691840
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8	ENCY	E04410		167103	7695	2880768	3691840
8	ENCY	E04412		169004	8997	309312	1119744
8	ENCY	E04413		169104	8997	309312	1119744
8	ENCY	E04414		232106	9464	46592	857600
8	ENCY	E04416		184004	8332	1989504	2800512
8	ENCY	E04417		192104	9876	1159424	1967872
8	ENCY	E04418		233004	9266	857664	1668736
8	ENCY	E04423		171004	8557	1930880	2741952
8	ENCY	E04424		245104	7857	2202944	3013376
8	ENCY	E04425		233104	9266	857664	1668736
8	ENCY	E04426		188104	8173	1068992	1850624
8	ENCY	E04427		184104	8332	1989504	2800512
8	ENCY	E04428		200104	9480	3451392	68096
8	ENCY	E04430		174104	7576	169920	980928
8	ENCY	E04431		195104	8524	3590144	197184
8	ENCY	E04433		236008	10615	3291008	4102016
8	ENCY	E04434		170104	9087	1119808	1930816
8	ENCY	E04435		171104	8557	1930880	2741952
8	ENCY	E04437		174004	7576	169920	980928
8	ENCY	E04438		172004	7872	2742016	3546432
8	ENCY	E04439		175104	8033	980992	1791808
8	ENCY	E04440		173004	9477	3564096	169856
8	ENCY	E04441		173104	9477	3564096	169856
8	ENCY	E04443		214004	9454	2223872	3034752
8	ENCY	E04444		163005	9991	3830656	445504
8	ENCY	E04445		166006	8869	2069696	2880704
8	ENCY	E04447		214104	9454	2223872	3034752
8	ENCY	E04449		175004	8033	980992	1791808
8	ENCY	E04450		163105	9991	3830656	445504
8	ENCY	E04451		213003	8861	1422464	2223808
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8	ENCY	E04455		217004	7210	462912	1273984
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8	ENCY	E04462		178103	6565	3414336	31040
8	ENCY	E04466		176004	7582	1792320	2603136
8	ENCY	E04467		176104	7582	1792320	2603136
8	ENCY	E04468		168104	7985	3691904	303040
8	ENCY	E04469		182104	7717	370880	1178304
8	ENCY	E04473		218004	7972	1274048	2085056
8	ENCY	E04474		218104	7972	1274048	2085056
8	ENCY	E04478		172104	7872	2742016	3546432
8	ENCY	E04482		177104	5733	2603200	3414272
8	ENCY	E04486		178003	6565	3414336	31040
8	ENCY	E04490		201104	9373	68160	878016
8	ENCY	E04491		183004	8703	1178368	1989440
8	ENCY	E04495		180004	7591	845504	1653248